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BEFORE THE PUBLIC UTILITIES COMMISSION

PUBLIC UTILITIES COMMISSION

OF THE STATE OF HAWAI'I

In the Matter of the Application of)	
HAWAIIAN ELECTRIC COMPANY, INC.)	Transmittal No. 17-02 (Decoupling)
For approval to modify the RBA Rate Adjustment in Its Revenue Balancing Account Provision Tariff)	Effective Date: June 1, 2017
in its Revenue Balancing Account Flovision Tariff	_)	Date. Julie 1, 2017

I

Hawaiian Electric Company, Inc. ("Hawaiian Electric" or "Company") files this transmittal to revise paragraph E (Tariff Sheet No. 92C) of its Revenue Balancing Account ("RBA") Provision tariff ("RBA Tariff") to revise the RBA Rate Adjustment by \$0.001193 from the current rate of \$0.021098 per kilowatt-hour ("kWh") to the new rate of \$0.022291 per kWh, effective June 1, 2017 through May 31, 2018. The RBA Rate Adjustment is based on the Company's RBA balance at the end of 2016 and the Company's Rate Adjustment Mechanism ("RAM") Revenue Adjustment for calendar year 2017.

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Hawaiian Electric, whose principal place of business and whose executive offices are located at 900 Richards Street, Honolulu, Hawai'i, is a corporation duly organized under the laws of the Kingdom of Hawai'i on or about October 13, 1891, and now exists under and by virtue of the laws of the State of Hawai'i. Hawaiian Electric is an operating public utility

engaged in the production, purchase, transmission, distribution and sale of electricity on the island of O'ahu.

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Correspondence and communications in regard to this Transmittal No. 17-02 are to be addressed to:

Dean K. Matsuura Manager, Regulatory Rate Proceedings Hawaiian Electric Company, Inc. P. O. Box 2750 Honolulu, Hawai'i 96840

IV

Hawaiian Electric seeks Commission authorization of this tariff transmittal pursuant to Sections 6-61-111, 6-61-74, 6-61-75, and 6-61-86 of the *Rules of Practice and Procedure before the Public Utilities Commission*, Hawai'i Administrative Rules ("HAR"), Title 6, Chapter 61. The proposed tariff revisions are in accordance with the Final Decision and Order in Docket No. 2008-0274, Order No. 32735 in Docket No. 2013-0141 and other orders as explained herein.

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Pursuant to HAR §6-61-76, Hawaiian Electric incorporates by reference its latest available balance sheet and income statement for the twelve months ending February 28, 2017 filed with the Commission on March 30, 2017.

On August 31, 2010, the Commission issued its *Final Decision and Order* in Docket No. 2008-0274, approving the decoupling mechanism for the Hawaiian Electric Companies. On December 29, 2010, the Commission issued its *Final Decision and Order* in Hawaiian Electric's 2009 test year rate case proceeding, Docket No. 2008-0083, allowing the Company to implement the decoupling mechanism and begin tracking target revenue and recorded adjusted revenue which serve as the baseline for future decoupling calculations. Beginning in 2011, Hawaiian Electric filed tariff transmittals to annually establish an RBA Rate Adjustment, which the Commission subsequently approved. In its annual filing in 2013, the Company included in the RAM Revenue Adjustment the net recoverable costs of the Campbell Industrial Park ("CIP") combustion turbine unit 1 ("CT-1") and the Customer Information System ("CIS") not already included in rates, pursuant to the *Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters* ("Stipulated Settlement") in Docket No. 2008-0083, dated January 28, 2013, which the Commission approved with clarifications in Order No. 31126 on March 19, 2013.³

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¹ The "Hawaiian Electric Companies" or "Companies" are Hawaiian Electric, Hawai'i Electric Light Company, Inc., ("Hawai'i Electric Light") and Maui Electric Company, Limited ("Maui Electric").

² Refer to Transmittal Nos. 11-02, 12-02, 13-03, 14-03, 15-03 and 16-01 filed March 31, 2011, March 30, 2012, March 28, 2013, March 31, 2014, March 31, 2015, and March 31, 2016 respectively, and approved in *Order Approving HECO's Tariff Filed on May 10, 2011, as Revised on May 26, 2011, Order No. 30418 Approving HECO's Tariff Transmittal Filed on March 30, 2012, as Revised on May 23, 2012, Order No. 31287 Consolidating Proceedings and Approving Multiple Tariff Transmittals, Order No. 32112 Consolidating Proceedings and Approving Tariff Transmittals, Order No. 32883 Consolidating Proceedings and Approving Amended Tariff Transmittals, as revised on June 3, 2015, and Order No. 33724 Consolidating Proceedings, Providing Clarifications, and Approving Tariff Transmittals As Amended, respectively. For information on past years' filings as well as additional background information on decoupling, refer to the transmittals cited here.*

³ Order No. 31126 also approved the provisions of the Stipulated Settlement that, for only the 2014, 2015 and 2016 RAM periods, and only for Hawaiian Electric, the Company was allowed to accrue the 2014, 2015 and 2016 RAM Revenue Adjustments, effective January 1 through December 31 of the calendar year. In 2017, the RAM provisions revert to the prior method. As a result, the Company is proposing to amend tariff sheet No. 92D to remove subpart G, and tariff sheet No. 931 to reflect this change. Please see Attachment 1 for the proposed changes to tariff sheet No. 92D.

On May 31, 2013, the Commission issued Order No. 31289 in Docket No. 2013-0141 to open an investigative docket to review whether the decoupling mechanisms are functioning as intended, are fair to the Companies and their ratepayers, and are in the public interest, and named the Hawaiian Electric Companies and the Division of Consumer Advocacy of the Department of Commerce and Consumer Affairs ("Consumer Advocate") to be parties in this proceeding. ⁴ The Commission later granted motions to intervene filed by the County of Hawai'i, Hawaii Solar Energy Association, Blue Planet Foundation and Hawaii Renewable Energy Alliance. In Order No. 31484 (pages 4 and 16), the Commission stated that it would divide the issues in this docket into two categories, Schedule A and Schedule B, and address them pursuant to separate procedural schedules.

On February 7, 2014, the Commission issued Decision and Order No. 31908 on the Schedule A issues, which directed the modification of certain provisions of the decoupling mechanisms. These modifications included the following: 1) effective March 1, 2014, the Companies shall use the short term debt rate, as established in deriving the consolidated cost of capital in each of the Companies' last full rate case, to compute interest on the outstanding RBA balances, and 2) the rate base RAM return on investment adjustment ("Rate Base RAM Adjustment") shall be equal to the prior RAM period's rate base RAM return on investment calculation plus 90 percent of the amount that the current RAM period's rate base RAM return on investment on investment calculation exceeds the prior RAM period's rate base RAM return on investment calculation. On February 28, 2014, the Companies filed amended tariffs implementing the

See Order No. 31289 Initiating Investigation, issued May 31, 2013, in Docket No. 2013-0141.

⁵ If the prior RAM period is a rate case test year, then the Rate Base RAM Adjustment shall be equal to 90 percent of the current RAM period's rate base RAM return on investment calculation.

provisions of the decision and order and on March 28, 2014, the Commission approved the Companies' amended tariffs in Order No. 32001 in Docket No. 2013-0141.

In Decision and Order No. 31908, the Commission also ordered the Companies to investigate the possibility that they may be able to defer payment of income taxes on the accrued amounts of decoupling revenue and make recommendations as to deferred tax treatment. On May 6, 2014, the Companies notified the Commission that they received approval from the Internal Revenue Service ("IRS") effective January 1, 2014 to change their accounting method from a book method of RBA revenue recognition to a recognition method based on when rates are adjusted for the RBA, and on May 19, 2014, provided information on how they will implement the change to reduce the amount of interest to be accrued.

On March 31, 2015, the Commission issued Order No. 32735 in Docket No. 2013-0141, which directed the Companies to make certain modifications to their decoupling mechanisms to be applied beginning with the Companies' 2015 decoupling filings. Among other things, the Commission ordered the following:

- 1) The RBA shall be retained;
- 2) The RAM mechanism shall be modified to include a cap that shall be applied to the total annual RAM Revenue Adjustment. The cap shall limit the automatic component of RAM adjustment increases to an amount equal to or lower than the Gross Domestic Product Price Index ("GDPPI");
- 3) The 90% adjustment shall be removed in favor of the GDPPI cap:
- 4) The Commission will allow the Companies to apply for approval by the Commission, on a case by case basis, to recover revenues outside of and in addition to the capped

RAM revenues.⁶ The Companies and the Consumer Advocate shall develop criteria for the Commission's review for recovery of these costs (which may include consolidated or "programmatic" baseline expenditures) through the RAM or the Renewable Energy Infrastructure Program ("REIP") surcharge;⁷ and

5) The changes in items 1 through 4 above shall be made effective on an interim basis pending commission resolution of the proceedings concerning the Companies' Power Supply Improvement Plans in Docket No. 2014-0183.8

Among the modifications to the RAM, the Commission amended the RAM Revenue Adjustment to be the lesser of (a) the RAM Revenue Adjustment determined according to "existing" tariffs and procedures ("Original RAM Methodology") or (b) a RAM Revenue Adjustment Cap ("RAM Cap"). The RAM Cap shall be based on the target revenues⁹ determined in accordance with the RBA and RAM tariffs times the cumulative annually compounded increase(s) in GDPPI for intervening years, adjusted to include applicable revenue taxes. ¹⁰ The RAM Cap will apply to the entire RAM Revenue Adjustment including the Operation and Maintenance ("O&M") RAM, Rate Base RAM (including major capital and baseline projects), and the Depreciation and Amortization RAM. ¹¹

⁶ The Commission remained "mindful of cautions expressed by the parties regarding the possible consequence of implementing caps or limits on RAM revenue recovery" and recognized the Companies' "need to finance necessary capital investments[,]" while sharing concerns expressed by the Companies that increasing the revenue requirement by inflation alone is unlikely to provide the Companies with sufficient revenue to invest as needed to meet Hawai'i's goals while also providing the Companies a fair opportunity to earn their cost of capital. Order No. 32735 at 85-87.

⁷ On June 15, 2015, in Docket No. 2013-0141, 1) the Companies filed their proposed *Hawaiian Electric Companies Standards and Guidelines for Eligibility of Projects for Cost Recovery through the RAM above the RAM Cap*, and 2) the Companies and the Consumer Advocate filed their *Joint Proposed Modified REIP Framework/Standards and Guidelines*.

⁸ Order No. 32735 at 5-7.

⁹ Order No. 32735 at 95-96.

¹⁰ Order No. 32735 at 94.

¹¹ Order No. 32735 at 96.

For each of the Hawaiian Electric Companies, for the calculation of the RAM Cap for the 2015 RAM Revenue Adjustment and until issuance of a final decision and order in the next rate case for each Company, the target revenues that will serve as the basis for the incremented cap will be the 2014 annualized target revenues.¹² Following the issuance of a final decision and order in a rate case, the basis for the calculation of the RAM Cap shall be the target revenue determined in accordance with the RBA tariff based on the results of the Company's most recent final rate case decision.¹³ ¹⁴

VII

By this Transmittal, Hawaiian Electric proposes to revise its decoupling RBA Rate Adjustment from the current rate of \$0.021098 per kWh to the new rate of \$0.022291 per kWh, effective June 1, 2017 through May 31, 2018.

The Company calculated its RBA Rate Adjustment according to its RBA and RAM tariff provisions¹⁵ and the provisions of Order Nos. 32735 and 32866. The 2017 RBA Rate Adjustment includes the recovery of the RBA balance at year end 2016 and the calculated RAM revenue adjustment for calendar year 2017. Approximately 32% percent of the RBA Rate Adjustment includes the recovery of the RBA balance at year end 2016, while approximately 68% of the RBA Rate Adjustment corresponds to the 2017 RAM amount. There are no adjustments to the RBA Rate Adjustment for earnings sharing revenue credits triggered for 2016 or for Commission-ordered major capital projects credits or baseline capital projects credits.

¹² Order No. 32735 at 95.

¹³ Order No. 32735 at 96.

¹⁴ On December 16, 2016, Hawaiian Electric filed its 2017 test year rate case in Docket No. 2016-0328 ("2017 Rate Case"). Upon receiving a final decision and order from the Commission, the following year's RAM will be calculated based on the target revenues established by the Commission's final decision and order in the 2017 Rate Case.

¹⁵ Refer to the Hawaiian Electric Tariff Revised Sheet Nos. 92, 92A – 92C, Sheet No. 92D and Revised Sheet Nos. 93 and 93A – 93H.

(Refer to Schedule A of Attachment 2 described in Section VIII of this tariff transmittal.) Based on the revised rate, a monthly bill for a residential Hawaiian Electric customer using 500 kWh of electricity would increase by \$0.60.¹⁶

The 2017 RBA Rate Adjustment will replace the 2016 RBA Rate Adjustment in the Company's Revenue Balancing Account Provision tariff and, as more fully discussed below, reflects the RBA balance as of the end of 2016, and the RAM Revenue Adjustment based on a RAM Cap. The following sections explain the amounts that make up the 2017 RBA Revenue Adjustment.

RBA Balance

The RBA revenue balance results from the sales decoupling component of the Commission-approved decoupling mechanism, which breaks the linkage between the Company's sales and total electric revenue. The approved RBA tariff allows Hawaiian Electric to record certain revenues only at target revenue levels (i.e., those authorized in the 2011 test year rate case plus the effective RAM Revenue Adjustments, less any applicable earnings sharing and/or major or baseline capital project credits), independent of the level of sales experienced. The approved RBA tariff also requires interest to be recorded monthly to the RBA at the interest rate specified in accordance with Order No. 32001, dated March 28, 2014. As a result, effective March 1, 2014, the annual rate used to calculate interest on the RBA balance changed from 6% to 1.75%, which is the short term debt rate as established in computing the consolidated cost of capital in the Company's last full rate case. Additionally, based on Decision and Order No. 31908 and pursuant to IRS approval to change the tax treatment of its RBA revenues,

¹⁶ The monthly bill impact for a household using 500 kWh with the revised rate would be \$11.15 as compared to \$10.55, based on the current rate.

effective January 1, 2014, the Company changed its basis for computing interest from a gross to a net-of-deferred income tax RBA balance.

The cumulative balance of the RBA at the end of 2016 was \$43.2 million, and consisted of revenues recorded in the RBA as a result of decoupling, net of the amounts previously recovered through the RBA Rate Adjustment, since the inception of decoupling at Hawaiian Electric in 2011. This is a decrease of \$2.2 million from the RBA balance at the end of 2015 of \$45.4 million, and was the result of Hawaiian Electric recovering \$51.0 million of the RBA balance through the RBA Rate Adjustment and recording \$49.2 million in revenues,¹⁷ adjustments, and interest for 2016. Therefore, the 2016 year-end balance of \$43.2 million represents the unrecovered cumulative RBA balance and additional amounts due to a shortfall in revenues resulting from lower sales in 2016. Because the revenues associated with the RBA balance have already been recorded, they have already been reflected in the Company's net income in those years and will not contribute to the Company's earnings in 2017. The 2016 year-end RBA balance of \$43.2 million is grossed-up to \$47.4 million to include revenue taxes.

Hawaiian Electric's 2016 recorded sales totaled 6,660.2 gigawatt-hours ("GWh"), which was 809.3 GWh, or 10.8% lower than the 7,469.5 GWh test year amount (based on the May 2010 forecast) adopted in the Hawaiian Electric 2011 test year rate case. The actual sales in 2016 continued to decline from 2015, 2014, 2013, 2012 and 2011 levels. 19

¹⁷ This represents the difference between target revenues and recorded adjusted revenues, plus any adjustments for 2016.

¹⁸ That is, "recorded adjusted revenue" as defined in the RBA Tariff.

The actual sales for 2011 totaled 7,242.4 GWh, a difference of -227.1 GWh, or -3.0%, from the test year estimate. The actual sales in 2011, 2012, 2013, 2014, 2015 and 2016 were 7,242.4 GWh, 6,976.0 GWh, 6,858.5 GWh, 6,781.7 GWh, 6,754.1 GWh and 6,660.2 GWh respectively. It should be noted that, if the 2011 test year sales estimate had been lower (e.g., closer to actual sales for 2011), then the current RBA balance would have been lower, but the interim and final base rates resulting from the rate case would have been higher. As a result, the net impact on customers over the period between rate cases would have been the same.

The residential and commercial sectors both experienced lower sales in 2016 compared to 2011 test year levels, with the larger shortfall of 23.1% in the residential sector where customers decreased their average monthly usage by 25.0%, as compared to the commercial sales shortfall of 6.2% (see Table 1 below).

Table 1
Comparison of TY2011 to Actuals

	TY2011	2011 Actuals	2012 Actuals	2013 Actuals	2014 Actuals	2015 Actuals	2016 Actuals	Diff Brw 2016 and TY2011	% Diff
Residential Sector									
Sales (GWh)	2,054.5	1,925.0	1,776.8	1,667.3	1,611.1	1,626.9	1,580.4	(474.1)	-23.1%
Customers	262,931	263,023	264,041	265,372	266,923	268,842	269,888	6,957	2.6%
Average Monthly Use (kWh/Customer)	651	610	561	524	503	504	488	(163)	-25.0%
Renewable Generation GWh Impacts 1	9.1	21,1	66.5	177.2	281.5	353.5	418.9	409.8	4487.4%
Energy Efficiency Impacts (GWh) 2	187.6	267.6	320.0	363.0	401,4	434.7		247.1	131.7%
Electricity Price (Nominal) E/kWh	25.59	32.04	35.10	34,62	35.48	28.02	26.07	0.48	1.9%
Commercial Sector									
Sales (GWh)	5,415.0	5317.4	5,199.2	5,191.2	5,170.5	5,127.2	5,079,8	(335.2)	-6.2%
Customers	33,713	33,611	33,541	33,549	33,800	33,657	33,844	131	0.4%
Renewable Generation GWh Impacts 1	30,6	34,2	57.2	80.3	105.8	145.3	169.8	139,2	454.6%
Energy Efficiency Impacts (GWh) 2	347.8	359.7	405.4	436.8	475.0	514.5		166,7	47,9%
Electricity Price (Nominal) é/kWh	20.78	27.97	30,64	29,64	30.22	23.02	20.75	(0.03)	-0.1%
Total Sales (GWh)	7,469.5	7,242.4	6,976.0	6,858.5	6,781.7	6,754.1	6,660.2	(809,3)	-10,8%
% Difference		-3,0%	-3.7%	-1,7%	-1,1%	-0.4%	-1.4%	. ,	
Weather									
Cooling Degree Days 3	4,780	4,954	4,532	4,506	4,909	5,082	4,788	8	0.2%
Average Wet Bulb Temperature (degrees)		70,0	68.9	68.8	69.6	70.6	69.6	(0,1)	-0.1%
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¹ Cumulative impacts are from systems installed under the NEM, SIA, CGS, CSS and FIT tariffs.

Several factors contributed to the lower than forecasted sales in 2016. First, higher penetration of customer-sited renewable generation systems installed under the Company tariffs such as Net Energy Metering ("NEM"), Standard Interconnection Agreements ("SIA"), Customer Grid-Supply ("CGS"), Customer Self-Supply ("CSS") and Feed-In-Tariffs ("FIT") had a significant impact on sales. The cumulative 2016 impacts of systems installed under NEM, SIA, CGS, CSS and FIT²⁰ were higher than the 2011 test year assumed impacts by 4,487.4% for the residential sector and 454.6% for the commercial sector. As shown in the 2016 Net Energy

TY2011 did not include impacts under FIT. Data subject to change.

² TY2011 estimates are consistent with Docket 05-0069. Actuals include impacts provided by Hawaii Energy and are subject to change.

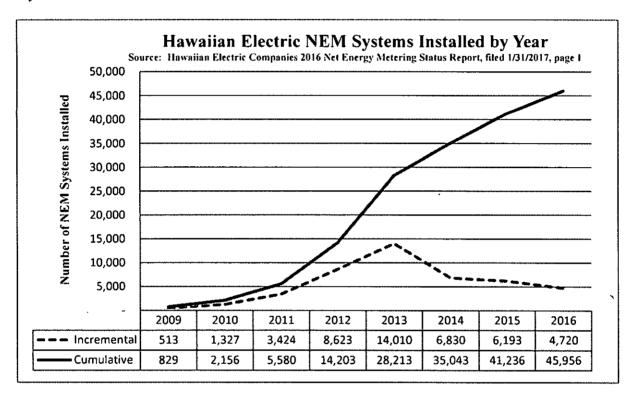
Complete calendar year 2016 data was not available at time of this filing and therefore calendar year 2015 was used in the comparison to TY 2011

³ A cooling degree day is a measurement designed to reflect the demand for energy to cool a home or business.

It is calculated by subtracting 65 from the day's average temperature,

²⁰ The impacts to sales under FIT are associated with the output from the system that offsets a customer's load as opposed to what is sold to the Company.

Metering Status Report filed January 31, 2017, page 1, the cumulative number of NEM installed systems on Hawaiian Electric's grid jumped from 829 in 2009 to 45,956 in 2016, a 5,444% increase over seven years. Refer to the graph below for the number of NEM systems installed by year.



Second, the actual impact to sales from the installation of energy efficient technologies was also greater than the 2011 test year rate case forecast. Impacts consistent with those filed in the Company's Energy Efficiency proceeding, Docket No. 05-0069, were used to develop the 2011 rate case forecast as information on future program impacts were not available at that time. The differences for the years 2011 through 2015²¹ between the Public Benefits Fund Administrator's programs and those identified in the Energy Efficiency docket resulted in

²¹ Energy efficiency impacts were not available for calendar year 2016. Table 1 provides energy efficiency impacts through calendar year 2015.

impacts that were greater than the demand side management ("DSM") impact assumed in the 2011 test year.

The decline in sales in 2016 was partially offset by the effects of warmer and more humid weather compounded by relatively lower electricity prices driven by lower fuel oil prices and load from new construction projects.

In summary, declining sales in 2016 created a shortfall in electric sales revenue and the recovery of the Company's fixed costs for the provision of electric service to its customers.

Overall, the RBA balance decreased to \$43.2 million at the end of 2016.

RAM Revenue Adjustment

Order No. 32735 states that the RAM Revenue Adjustment will be the lesser of (a) the RAM Revenue Adjustment calculated according to the existing tariffs and procedures at the time of the issuance of the order ("Original RAM Methodology") or (b) a RAM Cap. For the 2017 decoupling annual filing, the Company calculated the RAM Revenue Adjustment to be higher using the Original RAM Methodology, thereby triggering the use of the RAM Cap for the 2017 RAM Revenue Adjustment. See Schedule A1 and the summary table below.

		Original RAM
	RAM Cap ²²	Methodology ²³
2017 RAM Revenue Adjustment	\$101.1 million	\$128.2 million

 ²² 2017 RAM Cap \$101,131,452 is calculated as 2017 RAM Cap (\$97,742,487) + Exceptional And Other Matters (\$3,388,964). See Schedule A1.
 ²³ 2017 RAM Under Existing Tariffs \$128,162,481 calculated as: O&M RAM (\$23,380,733) + Rate Base RAM-

²³ 2017 RAM Under Existing Tariffs \$128,162,481 calculated as: O&M RAM (\$23,380,733) + Rate Base RAM-Return on Investment (\$66,238,985) + Depreciation and Amortization Expense (\$47,364,714) less an adjustment for Change in On-cost Clearing Allocation (-\$8,821,951). See Schedule A1.

Order No. 32866, paragraph 18 required the Company to adjust its 2015 RAM Revenue Adjustment to reflect the O&M expense reduction impact associated with the change in on-cost clearing allocation identified by the Company in its response to CA-IR-1(b). The RAM calculation for 2015 included an adjustment based on the actual 2014 O&M impact due to the change in on-cost clearing allocation. Therefore, in calculating the 2017 RAM revenue adjustment under the Original RAM Methodology, the adjustment has been updated to reflect the actual 2016 O&M impact of the change in on-cost clearing allocation. See HECO-WP-A1-001.

The sections below further explain the calculations of both RAM Revenue Adjustment methodologies.

RAM Revenue Adjustment Cap

Order No. 32735 at 95-96, explains that the RAM Cap will be based on the 2014 adjusted target revenues multiplied by the cumulative annually compounded increases in the GDPPI for intervening years, adjusted to include applicable revenue taxes. As shown in Schedule J in Attachment 2, the adjusted 2015 Target Revenues is \$637.4 million. This amount is then added to the adjusted 2016 RAM Cap increase of \$9.6 million²⁴. This results in a 2016 target revenue total of \$646.9 million. The 2016 target revenue total is then multiplied by the 2017 GDPPI of 2.00% to calculate the 2017 RAM Cap increase (excluding Exceptional and Other Matters) of \$12.9 million.

The incremental 2017 RAM Cap increase of \$12.9 million is then added to the adjusted 2016 RAM Cap of \$84.8 million to calculate the 2017 RAM Cap total of \$97.7 million.

\$3.4 million in "Exceptional and Other Matters" reflecting the RAM calculations for the CIP CT-1 Regulatory Asset and CIS deferred project cost is then added to the \$97.7 million to arrive at a Total 2017 RAM Revenue Adjustment Cap of \$101.1 million.

RAM Revenue Adjustment- Original RAM Methodology

The RAM Revenue Adjustment determined under the Original RAM Methodology totaled \$128.2 million. Below is a description of the three components: 1) O&M RAM, 2) Rate Base RAM, and 3) Depreciation and Amortization RAM Expense. Because the total of the three components is higher than the 2017 RAM Cap shown above, the RAM Cap is applied for the 2017 RAM Revenue Adjustment.

²⁴ The \$9.6 million 2016 RAM Cap increase is calculated by multiplying the 2015 target revenues of \$637.4 million by the 2016 GDPPI of 1.5%, as shown in Transmittal 16-01, Attachment 2, Schedule J, filed on March 31, 2016.

O&M RAM Adjustment

The 2017 O&M RAM adjustment is \$23.4 million, as calculated under the Original RAM Methodology. It includes the adjustments to the Commission-approved 2011 test year rate case labor (bargaining unit only) and certain non-labor costs. As specified in the Rate Adjustment Mechanism Provision tariff, these adjustments, covering the escalation in costs for 2012 through 2017, are based on bargaining unit wage increases as provided for in the current Collective Bargaining Agreement²⁵ with labor productivity offsets, plus applicable payroll taxes, and the GDPPI to escalate certain non-labor base expenses. (Refer to Attachment 2, Schedule C of this tariff transmittal.) The 2017 O&M RAM adjustment amount is higher than in 2016 because it covers six years of inflation and wage increases compared to the 2016 filing, which covered those increases for only five years.

Non-bargaining unit labor is not subject to escalation in the RAM. Further, the non-labor cost escalation rate does not apply to any fuel, purchased power, Integrated Resource Planning ("IRP")/DSM, pension, Other Post-Employment Benefits ("OPEB"), Clean Energy/Renewable Energy Infrastructure or any costs that are subject to recovery through separate rate tracking mechanisms.

Rate Base RAM and Depreciation and Amortization RAM

The rate base RAM return on investment adjustment ("Rate Base RAM Adjustment") totals \$66.2 million, and the depreciation and amortization RAM expense is \$47.4 million, as calculated under the Original RAM Methodology. The 2017 Rate Base RAM Adjustment

²⁵ The current Collective Bargaining Agreement was ratified by the IBEW, Local 1260, on November 1, 2012 and reflects a 3.00% increase effective January 1, 2014, January 1, 2015, and January 1, 2017, and a 3.25% increase effective January 1, 2016, based on January 1, 2013 wage rates.

(\$66.2 million) is larger than the 2016 Rate Base RAM Adjustment (\$54.8 million) because the 2017 return reflects an aggregation of the 2016 and 2017 plant addition impacts.

The \$66.2 million Rate Base RAM Adjustment covers the return for the following investments:

- \$241.3 million in plant investments that went into service in 2016 and are currently serving customers; these included in part the following²⁶:
 - \$120 million to modernize and improve O'ahu's electric grid and technology
 platform;
 - \$81 million to improve the quality of the Company's customer experience,
 develop innovative energy solutions and serve new loads;
 - \$19 million to reliably integrate more renewable energy and achieve clean energy portfolio standards; and
 - o \$21 million for environmental, safety, and other compliance.
- \$266.5 million in plant investments that went into service in 2015 and are currently serving customers.
- \$269.3 million in plant investments that went into service in 2014 and are currently serving customers.
- \$272.8 million in plant investments that went into service in 2013 and are currently serving customers.
- \$256.0 million in plant investments that went into service in 2012 and are currently serving customers.

²⁶ For more details, please see the Exemption From and Modification of General Order No. 7, Paragraph 2.3(g), Relating to Capital Improvements, Capital Projects Completed in 2016 ("2016 G.O. 7 Report") in Docket No. 03-0257, dated March 30, 2017.

- \$169.6 million in investments that went into service in 2011 and are currently serving customers.
- \$247.1 million in 2017 baseline (based on a five-year historical average) and major project additions included in the rate base RAM, on a simple average RAM year basis (i.e., one-half of the \$247.1 million, or \$123.5 million, is added to the actual 2016 plant balances in order to estimate the return on rate base).
- Additional CIP CT-1 and CIS project costs as approved in the Stipulated Settlement, as explained earlier.

These plant additions, which increase the rate base RAM, are partially offset by increases in accumulated depreciation, contributions in aid of construction ("CIAC") and accumulated deferred income taxes ("ADIT"). The increase in CIAC reflects the actual CIAC as of December 31, 2016, plus a five-year average of the baseline CIAC, plus estimated major project contributions, less amortization of CIAC for 2017. The ADIT continued to increase primarily as a result of accelerated tax deductions taken for bonus depreciation resulting from the Protecting Americans from Tax Hikes ("PATH") Act of 2015.

The Depreciation and Amortization RAM adjustment is primarily due to increases in the depreciable asset base. Depreciable plant in service increased by approximately \$1,182.0 million from the 2011 rate case to year-end 2016,²⁷ which accounts for approximately \$38.9 million of the \$47.4 million 2017 depreciation and amortization RAM adjustment shown in Schedule E.²⁸

²⁷ This increase consisted of \$241.3 in 2016 plant additions (offset by \$25.8 million in retirements), \$266.5 million in 2015 plant additions (offset by \$23.6 million in retirements), \$269.3 million in 2014 plant additions (offset by \$46.2 million in retirements), \$272.8 million in 2013 plant additions (offset by \$36.9 million in retirements), \$256.0 million in 2012 plant additions (offset by \$23.1 million in retirements), and the additional CIP CT-1 cost of \$31.7 million that was not previously included in the 2011 test year rate base

This is illustrated by applying a composite depreciation rate of 3.29% to the \$1,182.0 million increase in depreciable asset base, and grossing up for revenue taxes.

Earnings Sharing Calculation Issues

Two issues in this year's decoupling filing related to earnings sharing are discussed below along with the Company's proposals to address these issues:

- In July 2016, the Company discovered that an incorrect programming of a report developed when the new Customer Information System was implemented resulted in an overstatement of interest expense accrued since May 2012. The overstatement was deemed immaterial for financial statement purposes and reflected in 2016 results; however, had the interest expense been adjusted for in 2012, the amount of 2013 earnings sharing revenue credit would have been slightly higher. The Company is proposing a one-time adjustment for an adjusted 2013 earnings sharing revenue credit in the amount of a \$15,526 refund, which includes interest, to customers. For more details on the calculation, please see Attachment 2, Schedule A, H1, and HECO-WP-H1-001.
- Since the Earnings Sharing Mechanism was implemented in the decoupling filings in 2012 for Hawaiian Electric and in 2013 for Hawaiii Electric Light and Maui Electric, actual recorded cost of capital has been used for earnings sharing calculations. This practice was based on discussions with the parties and has resulted in the benefit of lower cost of capital being passed to customers via the Earnings Sharing Mechanism. However, this year it was noted that in its Final Decision and Order in Docket No. 2008-0274, page 61, filed on August 31, 2010, the Commission stated:

"Capital ratios and costs rates will be retained as authorized in either the most recently issued rate case interim or final decision, and synchronized interest will be updated using methods employed in that last rate case for purposes of the earnings sharing mechanism."

In reviewing the previous years' decoupling filings, in most years, the use of actual recorded cost of capital has resulted in larger cost savings being passed to customers through the Earnings Sharing Mechanism. Please see HECO-WP-H-008 for more details.

The Company is proposing to revise Sheet No. 93D, subpart a, in its Rate Adjustment Mechanism Provision tariff, as shown in Attachment 1, to formally incorporate the use of the actual cost of capital in the earnings sharing calculation. This clarification would not impact any of the previous years' decoupling filings.

RBA Revenue Adjustment

In total, Hawaiian Electric's 2017 RBA Revenue Adjustment is \$148.5 million, consisting of \$47.4 million for the RBA balance for year-end 2016 and \$101.1 in RAM revenue adjustment for 2017.

Customer Billing Adjustments

The Company also proposes to delete a provision in the Revenue Balancing Account Provision tariff on entries to the RBA to correct billing errors. In Transmittal Nos. 15-03, 15-04 and 15-05, the Consumer Advocate recommended that the "extensive manual analyses of out-of-period customer billing adjustments, which [have] historically been undertaken by the Hawaiian Electric Companies, should be discontinued effective in 2015" and stated the following:

Customer billing adjustments will flow naturally through the billed revenue accounts feeding into the calculation of recorded, adjusted revenues on Schedule B2 and the proposed elimination of the manual analysis of each adjustment to determine prior period months affected will significantly simplify RBA accounting efforts for the Hawaiian Electric Companies and corresponding review efforts for the Consumer Advocate and the Commission. The Hawaiian Electric Companies should continue to report each customer billing adjustment within its standard data responses prepared and submitted with each monthly RBA packet,

so that individual adjustments can be selected for review by the Consumer Advocate, as necessary.

The Company agrees with the Consumer Advocate's recommendation and proposes a threshold on the Consumer Advocate's reporting recommendation, as explained in HECO-WP-B-017 and therefore proposes to delete the associated tariff provision on Revised Sheet No. 92B of the Revenue Balancing Account Provision tariff regarding entries to the RBA to correct individual billing errors.

Special Medical Needs Pilot Program

By virtue of the Commission's approval of Transmittal No. 17-01, the Special Medical Needs Pilot Program ("SMNPP") rates in the Schedule R Residential Service tariffs will be authorized based rates effective April 1, 2017.²⁹ Thus, the revenue from the lower SMNPP rates in the Schedule R Residential Service tariffs will be included in the recorded adjusted revenue³⁰ as a credit entry into the RBA. Because the base rates for the SMNPP customers will be lower than before for these customers, the recorded adjusted revenue for the Companies entered into the RBA will be lower. As a result, the difference between target revenue and recorded adjusted revenue will be larger and will be reflected as a larger RBA balance, which in turn will be recovered through the RBA Rate Adjustment. The flow through of the larger difference between target revenue and recorded adjusted revenue resulting from the SMNPP rates in the Schedule R Residential Service tariffs would occur in accordance with the approved Schedule R (effective

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²⁹ On March 28, 2017, the Commission issued Decision and Order No. 34467, approving Transmittal No. 17-01, subject to certain conditions, and the SMNPP rates, effective April 1, 2017.

³⁰ The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

April 1, 2017) and the currently approved RBA Provision tariffs. Therefore, no changes to the Companies' tariffs would be required.

On January 18, 2017, the Hawaiian Electric Companies filed Transmittal No. 17-01, proposing a provision for the Special Medical Needs Pilot Program in each company's Schedule R tariff. The proposed tariff included discounted per kilowatt-hour rates on a pilot basis for up to 2,000 customers with special medical needs. Transmittal No. 17-01 stated the following: "The Companies also request that the bill adjustments provided to customers under the SMNPP be included as a reduction to recorded adjusted revenues for the determination of the monthly entry to the revenue balancing account per the Revenue Balancing Account Provision."³¹

Regarding the revenue balancing account, Decision and Order No. 34467 stated the following:

Lastly, the Companies request that the commission "[a] llow the bill adjustments provided to customers under the [Special Medical Needs Pilot Program] Provision to be included as a reduction to recorded adjusted revenues for the determination of the monthly entry to the revenue balancing account per the Revenue Balancing Account Provision."

The Companies' transmittal, filed pursuant to HAR § 6-61-111, is limited to the proposed tariff revisions to their existing Schedule R. Thus, the Companies' Revenue Balancing Account-related request is outside the scope (i.e., "beyond the scope") of this non-docketed, transmittal matter. Accordingly, the commission takes no action on: (1) the Companies' Revenue Balancing Account-related request; or (2) the Consumer Advocate's related recommendations thereto.

[Footnotes omitted.] Decision and Order No. 34467 at 25-26.

The Companies appreciate the Commission's timely order approving the SMNPP rates proposed in Transmittal No. 17-01. Regarding the flow through of revenue reductions resulting from the approval of the Special Medical Needs Pilot Program rates in the Schedule R Residential Service tariffs into the Revenue Balancing Account, no change to the Companies'

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³¹ Transmittal No. 17-01 at 10.

current Revenue Balancing Account ("RBA") Provision tariffs would be required. The RBA Provision tariffs state the following:

The purpose of the Revenue Balancing Account ("RBA") is to record 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision over the subsequent June 1st through May 31st period.

Hawaiian Electric RBA Provision tariff, Revised Sheet No. 92, effective June 1, 2013; Maui Electric RBA Provision tariff, Revised Sheets 97 (Maui), 108 (Lana'i), and 152 (Moloka'i), effective June 1, 2013; Hawai'i Electric Light RBA Provision tariff, Revised Sheet No. 91, effective June 1, 2013.

The RBA Provision tariffs define target revenue as "the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case,…" with certain exclusions and additions as specified in the tariff.³²

Regarding entries to the RBA and "recorded adjusted revenue," the RBA Provision tariffs state the following:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power

³² Hawaiian Electric RBA Provision Tariff, Revised Sheet No. 92A, effective January 1, 2014; Maui Electric RBA Provision tariff, Revised Sheets No. 97A (Maui), 108A (Lana'i), and 152A (Moloka'i), effective June 1, 2013; Hawai'i Electric Light RBA Provision tariff, Revised Sheet No. 91A, effective June 1, 2013.

expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

[Emphasis added.] Hawaiian Electric RBA Provision tariff, Revised Sheet No. 92B, effective March 1, 2014; Maui Electric RBA Provision tariff, Revised Sheets No. 97B (Maui), 108B (Lana'i), and 152B (Moloka'i), effective March 1, 2014; Hawai'i Electric Light RBA Provision tariff, Revised Sheet No. 91B, effective March 1, 2014.

Accordingly, since the revenue from the lower SMNPP rates in the Schedule R
Residential Service tariffs will be included in the recorded adjusted revenue as a credit entry into the RBA, no changes to the Companies' tariff are being made.

VIII

List of Attachments and Schedules

In Attachment 1 of this tariff transmittal, Hawaiian Electric submits its proposed revisions to its Revenue Balancing Account Provision tariff, including the proposed RBA Rate Adjustment rate in Section E of Revised Sheet No. 92C,³³ and its proposed revisions to the Rate Adjustment Mechanism Provision tariff, including the revision to Sheet No. 93D³⁴ discussed on pages 17-18. Attachment 1A provides the tariff sheets for the RBA and RAM Provision tariffs in blackline version.

Attachment 2 provides the calculation of the RBA Rate Adjustment in the following schedules, along with supporting workpapers:

Schedule A – Determination of 2017 RBA Rate Adjustment (Summary)

Schedule A1 - Determination of Total RAM Revenue Adjustment Allowed

Schedule B – Summary of Accumulated Revenue Balancing Account

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³³ The revision to Sheet No. 92D is described in footnote 3 herein.

³⁴ The revision to Sheet No. 93I is described in footnote 3 herein.

- Schedule BI Determination of Target Revenues
- Schedule B2 Determination of Recorded Adjusted Revenues
- Schedule C Determination of O&M RAM Adjustment
- Schedule C1 Summary of Operations and Maintenance Labor and Non-Labor Expense
- Schedule C2 Non-Labor Exclusion Adjustment for O&M RAM
- Schedule D Determination of Rate Base RAM Adjustment Return on Investment
- Schedule DI Determination of Rate Base RAM Adjustment Change in Rate Base
- Schedule D2 Determination of Baseline Capital Projects Additions
- Schedule D3 Determination of Major Capital Project Additions
- Schedule D4 Determination of Adjusted Recorded Deferred Income Taxes
- Schedule E Determination of Depreciation and Amortization RAM Adjustment
- Schedule F Determination of Change in Deferred Income Taxes
- Schedule F1 Determination of Tax Depreciation
- Schedule F2 Tax Depreciation on Major Capital Projects Additions
- Schedule G CIAC Summary
- Schedule G1 Baseline Capital Project CIAC Additions
- Schedule G2 Major Capital Project CIAC Additions
- Schedule G3 CIAC Amortization
- Schedule H Earnings Sharing Calculations³⁵
- Schedule H1 Revised Earnings Sharing Calculations 2013
- Schedule I PUC-Ordered Adjustments

³⁵ The Company has provided its calculated ratemaking return on equity for year 2016 in Schedule H as required by the Commission in its *Final Decision and Order* in the decoupling proceeding (Docket No. 2008-0274) on August 31, 2010.

Schedule J – Determination of RAM Cap

Schedule K – Exceptional & Other Matters

Schedule K1 – Exceptional & Other Matters- CIP CT-1 and CIS

The Hawaiian Electric Companies and the Consumer Advocate jointly developed the format of the schedules in Attachment 2, which the Companies have used for their annual RBA Rate Adjustment submissions since 2012.

WHEREFORE, Hawaiian Electric, consistent with the advance notice required by law, hereby respectfully requests that its proposed revisions to the Revenue Balancing Account Provision and Rate Adjustment Mechanism Provision tariffs be allowed to become effective on June 1, 2017.

DATED: Honolulu, Hawai'i, March 31, 2017.

HAWAIIAN ELECTRIC COMPANY, INC.

Joseph P. Viola

Vice President, Regulatory Affairs

ATTACHMENT 1

Superseding Revised Sheet No. 50D REVISED SHEET NO. 50D Effective September 21, 2016 Effective June 1, 2017 RATE SCHEDULES (continued)

Sheet	Schedule	Date Effective	Character of Service
87	TOU-R	September 1, 2012	Residential Time-Of-Use Service
88	TOU-R	September 21, 2016	Residential Time-Of-Use Service
89	Residential TOU EV	September 21, 2016	Residential Time-Of-Use Service with Electric Vehicle Pilot
89A	Residential TOU EV	October 1, 2015	Residential Time-Of-Use Service with Electric
89B	Residential TOU EV	September 21, 2016	Vehicle Pilot Residential Time-Of-Use Service with Electric Vehicle Pilot
92	"RBA"	June 1, 2017	Revenue Balancing Account Provision
92A	"RBA"	January 1, 2014	Revenue Balancing Account Provision
92B	"RBA"	June 1, 2017	Revenue Balancing Account Provision
92C	"RBA"	June 1, 2017	Revenue Balancing Account Provision
92D	"RBA"	June 1, 2017	Revenue Balancing Account Provision
93	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
93A	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
93B	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision
93C	"RAM"	June 8, 2015	Rate Adjustment
93D	"RAM"	June 1, 2017	Mechanism Provision Rate Adjustment
93E	"RAM"	June 8, 2015	Mechanism Provision Rate Adjustment
93F	"RAM"	June 1, 2013	Mechanism Provision Rate Adjustment
93G	"RAM"	June 8, 2015	Mechanism Provision Rate Adjustment Mechanism Provision

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Transmittal Letter dated March 31, 2017.

Data Defendance Character of Convict	
<u>Sheet Schedule Date Effective Character of Service</u>	<u> </u>
93H "RAM" June 8, 2015 Rate Adjustment	
Mechanism Provision	
93I "RAM" June 1, 2017 Rate Adjustment	
Mechanism Provision	
94 "PPAC" March 1, 2017 Purchased Power	
Adjustment Clause	
94A "PPAC" March 1, 2017 Purchased Power	
Adjustment Clause	
94B "PPAC" March 1, 2017 Purchased Power	
Adjustment Clause 95 EV-F July 4, 2013 Commercial Public Ele	
95 EV-F July 4, 2013 Commercial Public Ele Vehicle Charging Faci	
Service Pilot	ricy
95A EV-F July 4, 2013 Commercial Public Ele	ctric
Vehicle Charging Faci	
Service Pilot	-
95B EV-F July 4, 2013 Commercial Public Ele	ctric
Vehicle Charging Faci	lity
Service Pilot	
96 EV-U July 4, 2013 Commercial Public Ele	
Vehicle Charging Serv	ice
Pilot 96A EV-U July 4, 2013 Commercial Public Ele	
96A EV-U July 4, 2013 Commercial Public Ele Vehicle Charging Serv	
Pilot	ice
97 TOU-RI November 21, 2016 Residential Interim	Time-
of-Use Service	110
97A TOU-RI November 21, 2016 Residential Interim	Time-
of-Use Service	
97B TOU-RI November 21, 2016 Residential Interim	Time-
of-Use Service	
97C TOU-RI November 21, 2016 Residential Interim	Time-
of-Use Service	

Supplement To:

Schedule	R -	Residential Service
Schedule	G -	General Service - Non-Demand
Schedule	J -	General Service - Demand
Schedule	DS -	Large Power Directly Served Service
Schedule	P -	Large Power Service
Schedule	F -	Public Street Lighting, Highway
		Lighting and Park and Playground
		Floodlighting
Schedule	U -	Time-of-Use Service
Schedule	TOU-R -	Residential Time-of-Use Service
Schedule	TOU-G -	Small Commercial Time-of-Use Service
Schedule	TOU-J -	Commercial Time-of-Use Service
Schedule	SS -	Standby Service
Schedule	TOU EV-	Residential Time-of-Use Service with
		Electric Vehicle Pilot
Schedule	EV-F -	Commercial Public Electric Vehicle
		Charging Facility Service Pilot
Schedule	TOU-RI-	Residential Interim Time-of-Use Service

All terms and provisions of the above listed rate schedules applicable except that the total base rate charges for each billing period shall be adjusted by the Revenue Balancing Account Rate Adjustments shown below:

A: PURPOSE:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision over the subsequent June 1st through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaiian Electric's 2009 test year rate case, Docket No. 2008-0083, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated March 31, 2017.

B: TARGET REVENUE:

For the purpose of the RBA, the target revenue is the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case, excluding revenue for fuel and purchased power expenses that are recovered either in base rates or in a purchased power adjustment clause; excluding revenue being separately tracked or recovered through any other surcharge or rate tracking mechanism; and excluding amounts for applicable revenue taxes;

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and

Less: Any applicable Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits calculated under the RAM provision.

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment for any previous period and for revisions to RAM Revenue Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments. For any corrections of errors in previously calculated RAM Revenue Adjustments, the target revenue shall be adjusted as of the date that the corrected information would have been reflected in target revenue. For changes in the RAM Revenue Adjustment as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of tariff rates that are implemented pursuant to the subsequently issued Commission order.

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the subsequent annual March 31 decoupling filing, the utility will have the burden to demonstrate that the interim changes are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

Monthly Allocation Factors for the Target Revenue are as follows:

January	8.10%
February	7.26%
March	8.10%
April	7.84%
May	8.44%
June	8.47%
July	8.77%
August	9.04%
September	8.68%

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 31764; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 27, 2013. Transmittal Letter dated December 30, 2013.

October	8.78%
November	8.26%
December	8.26%
Total	100.00%

These factors are based on the mWh sales forecast that is approved by the Commission in Hawaiian Electric's 2011 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

Interest will be recorded monthly to the RBA by multiplying the simple average of the beginning and ending month balance in the RBA times the Interest Rate divided by 12. The Interest Rate shall be the short term debt rate as established in deriving the consolidated cost of capital in the Company's last full rate case. The Interest Rate prior to March 1, 2014 shall be 6 percent.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

At the Annual Evaluation Date provided in the Rate Adjustment Mechanism Provision, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

Both an amortization of the previous calendar year-end balance in the RBA, adjusted for any Earnings Sharing Revenue Credits or Major Capital Projects Credits, Baseline Capital Projects Credits or corrections, and the RAM Revenue Adjustment will be recovered through a per-kWh RBA rate adjustment, over the 12 months from June 1 of the

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated March 31, 2017.

REVISED SHEET NO. 92C Effective June 1, 2017

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

current calendar year to May 31 of the succeeding calendar year. The recovery through the RBA Rate Adjustment of a RAM Revenue Adjustment calculated for a calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that implement a Commission approved base revenue level authorized in the Company's test year rate case.

Revisions to Target Revenue based on corrections for errors and subsequently issued Commission orders, described in Section B above, will not be reflected in the RBA Rate Adjustment until a succeeding June 1 to May 31 period, unless otherwise ordered or approved by the Commission.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, coincident with the Annual Evaluation Date filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before June 1st, the RBA Rate Adjustment shall go into effect on June 1st, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

E: REVENUE BALANCING ACCOUNT RATE ADJUSTMENT:

The RBA Rate Adjustment is comprised of the calculated values from Section D above, adjusted to include amounts for applicable revenue taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

The RBA Rate Adjustment shall remain unchanged during the recovery period unless further modification is required by order or approval of the Commission, except as specifically provided above.

RBA Rate Adjustment

All Rate Schedules 2.2291 ¢/kWh

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated March 31, 2017.

F. NOTICE

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual filing pursuant to this tariff. The notice to customers shall include the following information:

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

G: COMMISSION'S AUTHORITY

The Commission may suspend any or all parts of this Revenue Balancing Account Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

RATE ADJUSTMENT MECHANISM PROVISION

Rate Adjustment Mechanism ("RAM") Provision

Purpose

This mechanism is subject to review and continuation, termination or modification in the utility's next base rate case proceeding, upon a showing by the utility and finding by the Commission that continuation or modification is appropriate. As part of its submitted testimony in the base rate case, the Company will include a summary report on the status of certain HCEI initiatives. The RAM mechanism is designed to determine the change in annual utility base revenue levels, recognizing certain estimated changes in the utility's cost to provide service. If, through the application of this mechanism, it is determined that annual utility base revenues should be decreased or increased, then the RAM Revenue Adjustment will be applied within the Revenue Balancing Account Provision. The RAM Revenue Adjustment established for a RAM Period calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that are implemented pursuant to a Commission Decision & Order for that test year, unless otherwise specified below.

Definitions

- a) The Annual Evaluation Date shall be the Date the Company will make its annual filing under this mechanism. The Annual Evaluation Date shall be no later than March 31st of each year, commencing March 31, 2011.
- The Evaluation Period is defined as the historical twelve month period ending December 31, of each calendar year preceding the Annual Evaluation Date. The Evaluation Period is used solely to determine achieved earnings and any sharing of such earnings above the Authorized Return on Equity.
- The RAM Period is defined as the calendar year containing the Annual Evaluation Date.
- The Labor Cost Escalation Rate shall be the applicable annual percentage general wage rate increase provided for in currently effective union labor agreements for use in escalating wage and salary Base Expenses for union employees to determine the RAM Revenue Adjustment for each RAM Period. In the event no union labor agreement exists for a RAM Period, the most recently effective annual general percentage increase rate shall apply.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013.

RATE ADJUSTMENT MECHANISM PROVISION

- e) The Non-labor Cost Escalation Rate shall be the consensus estimated annual change in the Gross Domestic Product Price Indicator ("GDPPI") to escalate non-labor Base Expenses to determine the RAM Revenue Adjustment for each RAM Period. The GDPPI escalation rate shall be the consensus projection published by the Blue Chip Economic Indicators (Aspen Publishing) each February for the current RAM Period. In the event that the Blue Chip Economic Indicators forecast of the GDPPI is not available, the Consumer Advocate, Company, and other parties to the most recent rate case, with approval of the Commission, shall jointly select an alternative data source, or national economic index similar to GDPPI, as appropriate.
- f) The annual Labor Productivity Offset shall be fixed at 0.76 percent (76/100 of one percent) and will be subtracted from the Labor Cost Escalation Rates applicable to Base Expenses to determine the authorized RAM Revenue Adjustment for each RAM Period.
- g) The Base Expenses shall be the labor and non-labor operations and maintenance expense amounts approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. Base Expenses shall not include any fuel, purchased power, IRP/DSM, pension, Other Post-Employment Benefits ("OPEB"), or Clean Energy/Renewable Energy Infrastructure or any costs that are subject to recovery through separate rate tracking mechanisms.
- h) The Major Capital Projects shall be those capital investment projects that require an application before and approval by the Commission under the Commission's General Order No. 7, but excluding those projects included in the Clean Energy Infrastructure Surcharge.
- i) The Baseline Capital Projects shall be the total amounts of capital investment completed and closed to Plant in Service, excluding amounts related to Major Capital Projects.
- j) The Return on Investment shall be the overall weighted percentage rate of return on debt and equity capital approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

- k) The Authorized Return on Equity shall be the percentage rate of return on equity capital approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case.
- 1) The Exogenous Tax Changes shall be the changes in tax laws or regulations that are estimated to impact RBA Target Revenues by two million dollars (\$2,000,000) or more.
- m) The Rate Base shall be the average net investment estimated for the RAM Period, including each of the elements of rate base reflected within the most recent rate case Decision & Order issued by the Commission, quantified in the manner prescribed in part (f) of Section 2 of the Rate Adjustment Mechanism.
- n) The RAM Revenue Adjustment to be applied to determine effective Target Revenues will be the lesser of a) the RAM Revenue Adjustment Calculation or b) the RAM Revenue Adjustment Cap.
- o) The RAM Revenue Adjustment Calculation shall be the change in the annual amount of revenue required for the utility to recover the sum of the O&M RAM Adjustment, Depreciation & Amortization RAM Adjustment, and Rate Base RAM Return on Investment Adjustment, using the ratemaking conventions and calculations reflected within the most recent rate case Decision & Order issued by the Commission, quantified in the manner prescribed herein.
- p) The RAM Revenue Adjustment Cap shall be based on the Target Revenues determined in accordance with the RBA and RAM tariffs as provided below.
- q) The RAM Revenue Adjustment determined by this RAM Provision is to be recovered through the RBA Provision commencing on June 1 and over the subsequent 12 months after June 1.
- r) Earnings Sharing Revenue Credits shall be the amounts to be returned to customers as credits through the Revenue Balancing Account ("RBA") Provision, so as to implement the earnings sharing percentages and procedures described herein, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.
- s) Major Capital Projects Credits shall be the amounts to be returned to customers through the Revenue Balancing Account Provision, to reduce a preceding year's RAM Revenue Adjustment (including interest at the rate described in the RBA Provision) for specific major capital projects that were not placed into service within the first nine months of the preceding RAM Period HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated June 3, 2015.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

as expected. Because the Commission's review of the Major Capital Projects' actual costs incurred may not occur until the rate case after the RAM Revenue Adjustment for these Major Capital Projects is collected, Major Capital Projects Credits (including interest) ' will be returned to customers for the amount of Major Capital Projects costs that the Commission disallows for cost recovery. The Major Capital Projects Credits are to be refunded through the RBA Provision, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

t) Baseline Capital Projects Credits shall be the amounts to be returned to customers through the RBA Provision, to reduce a preceding year's RAM Revenue Adjustment (including interest at the rate described in the RBA Provision) for specific baseline capital projects that are disallowed by the Commission in a subsequent rate case if the disallowance reduces actual Baseline Capital Projects costs below the Baseline Capital Projects cost estimate derived using the method identified in part (f)ii. of Section 2 of the Rate Adjustment Mechanism below. Because the Commission's review of baseline capital projects may not occur until the rate case after such baseline capital projects are included in one or more RAM Revenue Adjustment filings, Baseline Capital Projects Credits shall be used to refund to customers any prior collections (i.e., Return on Investment on Rate Base and Depreciation, plus interest) relating to the amount of Baseline Capital Projects costs that the Commission subsequently disallows for cost recovery. The Baseline Capital Projects Credits are to be refunded through the RBA Provision, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

Rate Adjustment Mechanism

The Company shall file with the Commission, the Consumer Advocate and each party to the Company's most recent rate case proceeding, the schedules specified below:

Evaluation Period Earnings Sharing:

1. For the twelve month period ending December 31, of each year (the "Evaluation Period"), with the filing to be made no

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated June 3, 2015.

later than March 31, of the year following the conclusion of the Evaluation Period. The schedules will include the following:

- a) Company's recorded actual average net plant in service, accumulated deferred income taxes, inventory, working capital, and other rate base components. The schedules shall also show the utility's actual depreciation expense, operating and maintenance expense, income taxes, taxes other than income taxes, and other components of income for return, revenues, and actual capital structure, cost of debt, overall cost of capital, and return on common equity in the format set forth in the final order establishing the Company's latest effective rates.
- b) All applicable accounting and pro forma adjustments historically required in annual reports filed with the Commission.
- c) Pro-forma adjustments to remove from recorded revenues any out-of-period Earnings Sharing Revenue Credits or Major Capital Projects Credits recorded during the Evaluation Period, and
- d) A calculation comparing the achieved return on average common equity to the following earnings sharing grid, and indicating the Earnings Sharing Revenue Credit that should be recorded within the Revenue Balancing Account to effect the prescribed sharing of earnings above authorized levels:

ROE at or below the Authorized ROE	Retained entirely by shareholders - no customer credits
First 100 basis points (one percent) over Authorized ROE	25% share credit to customers
Next 200 basis points (two percent) over Authorized ROE	50% share credit to customers
All ROE exceeding 300 basis points (three percent) over Authorized ROE	90% share credit to customers

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated March 31, 2017.

RATE ADJUSTMENT MECHANISM PROVISION (continued) RAM Period RAM Revenue Adjustment Calculation:

- 2) The Company shall provide additional schedules indicating the following proposed RAM Revenue Adjustment Calculation applicable for the RAM Period using the methodology set forth below:
 - a) The O&M RAM Adjustment shall adjust Base Expenses segregated between labor and non-labor components and treated as follows:
 - i. The labor component shall be quantified for the RAM Period by application of the Labor Cost Escalation Rate, reduced to account for the Productivity Offset to labor expenses, including payroll taxes. The part of Base Expenses that represents labor costs for merit employees shall not be subject to application of the Labor Cost Escalation rate, nor be reduced by the Productivity Offset.
 - ii. The Non-labor components shall be quantified for the RAM Period by application of the Non-labor Escalation Rate to non-labor Base Expenses. Nonlabor components shall exclude fuel, purchased power, pension/OPEBs, IRP/DSM or other rate adjustment provisions.
 - b) Depreciation and Amortization RAM Adjustment shall be quantified for the RAM Period by application of Commission-approved accrual rates and methods to the actual recorded Plant in Service balances at the end of the Evaluation Period.
 - c) The Rate Base RAM Return on Investment Adjustment shall be determined by multiplying the applicable Pretax Rate of Return times the change in Rate Base. The Pretax Rate of Return shall include related income taxes on the equity components of the Return on Investment rate approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. The quantification of Rate Base is specified in greater detail in part (f) of this Section 2.
 - d) The revenue impact of any Exogenous Tax Changes shall be included in the RAM Period calculation of the RAM Revenue Adjustment.
 - e) Revenue taxes shall be adjusted to account for the change in parts (a) through (e) of this Section 2.
 - f) Rate Base for the RAM Period shall be quantified as follows:

HAWAIIAN ELECTRIC COMPANY, INC.

- i. Plant in Service, Accumulated Depreciation, Accumulated Deferred Income Taxes and Contributions in Aid of Construction ("CIAC") shall be a two-point average of actual recorded balance sheet data at December 31 of the Evaluation Period, plus projected values at December 31 of the RAM Period determined as prescribed in parts (ii) through (v), below.
- ii. Plant in Service shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period, the simple average of Baseline Capital Projects plant additions recorded in the immediately preceding five calendar years, plus the estimated cost of completed Major Capital Projects that are anticipated to be in service by September 30 of the RAM Period. The cost of Major Capital Projects shall be limited to the dollar amounts previously approved by the Commission, and shall be included at the level of recorded costs if recorded costs are lower than the budget amounts approved by the Commission, and the Commission has not yet reviewed the project costs in a rate case.
- iii. Accumulated Depreciation at December 31 of the RAM Period shall be quantified by increasing the recorded balances at December 31 of the Evaluation Period by the amount set forth in Section 2 part (b) above, consistent with rate-making treatment.
 - iv. CIAC shall be quantified by adding to the recorded balance at December 31 of the Evaluation Period an estimate of the net change for the RAM Period. The net change shall be based on a simple average of cash and in-kind CIAC for the immediately preceding five calendar years for programs (i.e., numerous low cost capital projects) plus specific engineering estimates of any contributions for the Major Capital Projects anticipated to be in service by September 30 of the RAM Period.
 - v. Accumulated Deferred Income Taxes shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period the estimated tax effect of the depreciation timing difference (i.e., difference between book depreciation and tax depreciation) on the Baseline Capital Projects and Major Capital Projects added to rate base during the RAM Period.
 - vi. Working Cash and all other elements of rate base not specifically addressed above shall be fixed at the dollar amount approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. These elements of rate base shall be held constant until revised by a future Commission Decision & Order in a general rate case.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013.

REVISED SHEET NO. 93G Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION (continued)

q) See also Settlement Agreement section below.

RAM REVENUE ADJUSTMENT CAP

The RAM Basis for the calculation of the RAM Revenue Adjustment Cap shall be the target revenues determined in accordance with the RBA tariff based on the results of the Company's most recent final rate case decision. The RAM Basis shall be adjusted 1) as described below in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment and the 2014 Depreciation and Amortization RAM Adjustment, and 2) to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the Commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Revenue Adjustment Cap.

The RAM Revenue Adjustment Cap shall be calculated as the RAM Basis, multiplied by the cumulative annually compounded increase(s) in the GDPPI for the years between the rate case calendar test year that established the RAM Basis and the RAM Period, adjusted to include applicable revenue taxes.

The RAM Revenue Adjustment Cap will apply to the entire RAM Revenue Adjustment, which includes the O&M RAM Adjustment, Depreciation and Amortization RAM Adjustment, and Rate Base RAM - Return on Investment Adjustment.

Exception to the calculation of the RAM Revenue Adjustment Cap:

For the calculation of the RAM Revenue Adjustment Cap for the 2015 RAM Revenue Adjustment and for each subsequent year's calculation of RAM Revenue Adjustment until the issuance of a final decision and order in the next rate case, the Target Revenues that will serve as the RAM Basis will be the 2014 annualized target revenues adjusted as described below. The 2014 RAM Revenue Adjustment used to determine the adjusted 2014 target revenues will be adjusted to use recorded 2014 end-of-year actuals for plant in service, accumulated depreciation and amortization, CIAC and accumulated deferred income taxes in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment. For the determination of the 2014 Depreciation and Amortization RAM Adjustment, the Company applies the Commissionapproved accrual rates and methods to the 2014 end of year balances calculated above. There is no impact to the O&M RAM Adjustment The RAM Basis shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically order by the Commission, as described above.

HAWAIIAN ELECTRIC COMPANY, INC.

The RAM Revenue Adjustment Cap for year 2015 and for each subsequent year until the issuance of a final decision and order in the next rate case shall be calculated as the RAM Basis, multiplied by the cumulative annually compounded increase(s) in the GDPPI for the years between 2014 and the RAM Period, adjusted to include applicable revenue taxes.

Evaluation Procedures

Complete, indexed workpapers and electronic files supporting the RAM Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits Schedules shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, coincident with the Annual Evaluation Date filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The RAM Revenue Adjustment, and any prior year RAM Revenue Adjustments, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis of prior calculations. The effect of such changes to the RAM Revenue Adjustment shall be implemented as described in the Revenue Balancing Account Provision.

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before the June 1 effective date of the RBA Rate Adjustment described in the RBA Provision tariff, the RBA Rate Adjustment incorporating the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits shall go into effect on the June 1 effective date, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

Notice

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual filing pursuant to this tariff. The notice to customers shall include the following information:

HAWAIIAN ELECTRIC COMPANY, INC.

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

SETTLEMENT AGREEMENT

The provisions in this section are for the sole and limited purpose of implementing the Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed in Docket No. 2008-0083, which the Commission approved in Order No. 31126, issued on March 19, 2013.

The Company will include in the Rate Base RAM - Return on Investment Adjustment and the Depreciation and Amortization RAM Expense Adjustment, in 2013 and subsequent years, the recoverable costs of the Campbell Industrial Park Combustion Turbine Unit 1 ("CIP CT-1") and the Customer Information System ("CIS") projects, net of the Stipulated and Commission approved project cost write-downs and as otherwise provided for in the Stipulated Settlement Agreement. Recovery of the CIS costs through the RAM Revenue Adjustment is for the sole purpose of this settlement agreement and does not constitute a precedent for the recovery of any other software or regulatory asset deferred costs through the RAM Revenue Adjustment.

COMMISSION'S AUTHORITY

The Commission may suspend any or all parts of this Rate Adjustment Mechanism Provision. Such suspension shall remain in place until removed by Commission Order.

ATTACHMENT 1A

Superseding Revised Sheet No. 50D ______REVISED SHEET NO. 50D Effective September 21, 2016 June 1, 2016 Effective September 21, 2017

RATE SCHEDULES (continued)

				
	Sheet	Schedule	Date Effective	Character of Service
	87	TOU-R	September 1, 2012	Residential Time-Of-Use Service
	88	TOU-R	September 21, 2016	Residential Time-Of-Use Service
	89	Residential TOU EV	September 21, 2016	Residential Time-Of-Use Service with Electric Vehicle Pilot
	89A	Residential TOU EV	October 1, 2015	Residential Time-Of-Use Service with Electric Vehicle Pilot
	89B	Residential TOU EV	September 21, 2016	Residential Time-Of-Use Service with Electric Vehicle Pilot
	92	"RBA"	June 1, 2013 June 1, 2	017 Revenue Balancing Account Provision
	92A	"RBA"	January 1, 2014	Revenue Balancing Account Provision
	92B	"RBA"	June 1, 2017 March 1,	2014 Revenue Balancing Account Provision
	92C Balancir	"RBA" ng Account	June 1, 2017 June 1, 2	016 Revenue
1	92D Account	"RBA"	June 1, 2013 June 1, 20	Provision 117 Revenue Balancing Provision
	93	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
	93A	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
	93B	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision
	93C	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision
ļ	93D	"RAM"	March 1, 2011 June 1, 2	
	93E	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision

HAWAIIAN ELECTRIC COMPANY, INC.

93F	"RAM"	June 1, 2013	Rate Adjustment
	44.50		Mechanism Provision
93G	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision

HAWAIIAN ELECTRIC COMPANY, INC.

Superseding Sheet No. 50E REVISED SHEET NO. 50E Effective March 1, 2017 February 1, 2017 Effective March 1, 2017 June 1, 2017

			RATE SCHEDULES (continued)								
5	<u>Sheet</u>	<u>Schedule</u>	Date Effective	Character of Service							
	93н	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision							
	931	"RAM"	June 8, 2015 June 1, 20	017 Rate Adjustment							
	94	"PPAC"	March 1, 2017	Mechanism Provision Purchased Power Adjustment Clause							
	94A	"PPAC"	March 1, 2017	Purchased Power Adjustment Clause							
	94B	"PPAC"	March 1, 2017	Purchased Power Adjustment Clause							
	95	EV-F	July 4, 2013	Commercial Public Electric Vehicle Charging Facility							
	95A	EV-F	July 4, 2013	Service Pilot Commercial Public Electric Vehicle Charging Facility							
	95B	EV-F	July 4, 2013	Service Pilot Commercial Public Electric Vehicle Charging Facility							
	96	EV-U	July 4, 2013	Service Pilot Commercial Public Electric Vehicle Charging Service							
	96A	EV-U	July 4, 2013	Pilot Commercial Public Electric Vehicle Charging Service Pilot							
	97	TOU-RI	November 21, 2016	Residential Interim Time- of-Use Service							
	97A	TOU-RI	November 21, 2016	Residential Interim Time- of-Use Service							
	97B	TOU-RI	November 21, 2016	Residential Interim Time- of-Use Service							
	97C	TOU-RI	November 21, 2016	Residential Interim Time- of-Use Service							

Supplement To:

Schedule R - Residential Service
Schedule G - General Service - Non-Demand
Schedule J - General Service - Demand
Schedule DS - Large Power Directly Served Service
Schedule P - Large Power Service
Schedule F - Public Street Lighting, Highway
Lighting and Park and Playground
Floodlighting
Schedule U - Time-of-Use Service
Schedule TOU-R - Residential Time-of-Use Service
Schedule TOU-G - Small Commercial Time-of-Use Service
Schedule TOU-J - Commercial Time-of-Use Service
Schedule SS - Standby Service
Schedule TOU EV- Residential Time-of-Use Service with
Electric Vehicle Pilot
Sehedule EV R Residential Electric Vehicle Charging
Schedule EV C Commercial Electric Vehicle Charging
Public Electric Vehicle
Charging Facility Service Pilot
Schedule TOU-RI- Residential Interim Time-of-Use Service

All terms and provisions of the above listed rate schedules applicable except that the total base rate charges for each billing period shall be adjusted by the Revenue Balancing Account Rate Adjustments shown below:

A: PURPOSE:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision over the subsequent June 1st through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision HAWAIIAN ELECTRIC COMPANY, INC.

and Order in Hawaiian Electric's 2009 test year rate case, Docket No. 2008-0083, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated March 27, 2012.

B: TARGET REVENUE:

For the purpose of the RBA, the target revenue is the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case, excluding revenue for fuel and purchased power expenses that are recovered either in base rates or in a purchased power adjustment clause; excluding revenue being separately tracked or recovered through any other surcharge or rate tracking mechanism; and excluding amounts for applicable revenue taxes;

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and

Less: Any applicable Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits calculated under the RAM provision.

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment for any previous period and for revisions to RAM Revenue Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments. For any corrections of errors in previously calculated RAM Revenue Adjustments, the target revenue shall be adjusted as of the date that the corrected information would have been reflected in target revenue. For changes in the RAM Revenue Adjustment as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of tariff rates that are implemented pursuant to the subsequently issued Commission order.

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the subsequent annual March 31 decoupling filing, the utility will have the burden to demonstrate that the interim changes are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

Monthly Allocation Factors for the Target Revenue are as follows:

January	8.10%
February	7.26%
March	8.10%
April	7.84%
May	8.44%
June	8.47%
July	8.77%
August	9.04%
September	8.68%

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 31764; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 27, 2013. Transmittal Letter dated December 30, 2013.

REVISED SHEET NO. 92B Effective March 1,

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

October	8.78%
November	8.26%
December	8.26%
Total	100.00%

These factors are based on the mWh sales forecast that is approved by the Commission in Hawaiian Electric's 2011 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

Interest will be recorded monthly to the RBA by multiplying the simple average of the beginning and ending month balance in the RBA times the Interest Rate divided by 12. The Interest Rate shall be the short term debt rate as established in deriving the consolidated cost of capital in the Company's last full rate case. The Interest Rate prior to March 1, 2014 shall be 6 percent.

Entries to the RBA to correct individual billing errors of \$5,000 or greater will be made as seen as possible. Such corrections to the RBA balance shall not require adjustments to prior calculated interest if the corrections are less than \$50,000 (in absolute value, plus or minus). In determining whether the corrections to the RBA balance are less than \$50,000 (in absolute value, plus or minus), all billing errors of \$5,000 or more that result from the same event shall be aggregated.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

At the Annual Evaluation Date provided in the Rate Adjustment Mechanism Provision, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 31908; Filed February 7, 2014.
Transmittal Letter dated February 28, 2014March 31, 2017.

REVISED SHEET NO. 92C Effective June 1,

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Both an amortization of the previous calendar year-end balance in the RBA, adjusted for any Earnings Sharing Revenue Credits or Major Capital Projects Credits, Baseline Capital Projects Credits or corrections, and the RAM Revenue Adjustment will be recovered through a per-kWh RBA rate adjustment, over the 12 months from June 1 of the

current calendar year to May 31 of the succeeding calendar year. The recovery through the RBA Rate Adjustment of a RAM Revenue Adjustment calculated for a calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that implement a Commission approved base revenue level authorized in the Company's test year rate case.

Revisions to Target Revenue based on corrections for errors and subsequently issued Commission orders, described in Section B above, will not be reflected in the RBA Rate Adjustment until a succeeding June 1 to May 31 period, unless otherwise ordered or approved by the Commission.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, coincident with the Annual Evaluation Date filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before June 1st, the RBA Rate Adjustment shall go into effect on June 1st, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

E: REVENUE BALANCING ACCOUNT RATE ADJUSTMENT:

The RBA Rate Adjustment is comprised of the calculated values from Section D above, adjusted to include amounts for applicable revenue taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated March 31, 20162017.

Superseding <u>REVISED</u> SHEET NO. 92C REVISED SHEET NO. 92C Effective <u>June 1, 2016 June 8, 2015</u> Effective June 1, 20162017

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

The RBA Rate Adjustment shall remain unchanged during the recovery period unless further modification is required by order or approval of the Commission, except as specifically provided above.

RBA Rate Adjustment

All Rate Schedules 2.10982.2291 ¢/kWh

F. NOTICE

F. NOTICE

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual filing pursuant to this tariff. The notice to customers shall include the following information:

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

C. SETTLEMENT AGREEMENT

The provisions in this section are a part of the Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed in Decket No. 2008 0083, which the Commission approved in Order No. 31126, issued on March 19, 2013.

For only the 2014, 2015, and 2016 RAM Periods, Hawaiian Electric will be allowed to accrue the 2014, 2015, and 2016 RAM Revenue Adjustments, effective January 1 through December 31 of the calendar year. Once the Company is able to calculate the RAM amount, the Company will record RAM Revenue Adjustment revenue for the monthly accruals. Recording of the accruals for those years will be delayed until the Company is able to determine the RAM amount. The Company is allowed to collect the ratably accrued RAM Revenue Adjustment amounts that are recorded from January through December, based on the monthly allocation factors specified above, through the RBA Rate Adjustment in years 2014, 2015, and 2016 from June 1 of each year to May 31 of the following year.

When the Company implements a Commission Decision & Order for a rate case for a 2014, 2015, or 2016 test year, further accrual of the RAM Revenue Adjustment for that test year, if still in progress, shall terminate. The Company will adjust the RBA Rate Adjustment to collect the unrecovered accrued RAM Revenue Adjustment amount for that year.

HG: COMMISSION'S AUTHORITY

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013March 31, 2017.

REVISED SHEET NO. 92C Effective June 1, 2013

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

The Commission may suspend any or all parts of this Revenue Balancing Account Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013.

RATE ADJUSTMENT MECHANISM PROVISION

Rate Adjustment Mechanism ("RAM") Provision

<u>Purpose</u>

This mechanism is subject to review and continuation, termination or modification in the utility's next base rate case proceeding, upon a showing by the utility and finding by the Commission that continuation or modification is appropriate. As part of its submitted testimony in the base rate case, the Company will include a summary report on the status of certain HCEI initiatives. The RAM mechanism is designed to determine the change in annual utility base revenue levels, recognizing certain estimated changes in the utility's cost to provide service. If, through the application of this mechanism, it is determined that annual utility base revenues should be decreased or increased, then the RAM Revenue Adjustment will be applied within the Revenue Balancing Account Provision. The RAM Revenue Adjustment established for a RAM Period calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that are implemented pursuant to a Commission Decision & Order for that test year, unless otherwise specified below.

<u>Definitions</u>

- a) The Annual Evaluation Date shall be the Date the Company will make its annual filing under this mechanism. The Annual Evaluation Date shall be no later than March 31st of each year, commencing March 31, 2011.
- The Evaluation Period is defined as the historical twelve month period ending December 31, of each calendar year preceding the Annual Evaluation Date. The Evaluation Period is used solely to determine achieved earnings and any sharing of such earnings above the Authorized Return on Equity.
- The RAM Period is defined as the calendar year containing the Annual Evaluation Date.
- d) The Labor Cost Escalation Rate shall be the applicable annual percentage general wage rate increase provided for in currently effective union labor agreements for use in escalating wage and salary Base Expenses for union employees to determine the RAM Revenue Adjustment for each RAM Period. In the event no union labor agreement exists for a RAM Period, the most recently effective annual general percentage increase rate shall apply.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013.

RATE ADJUSTMENT MECHANISM PROVISION

- e) The Non-labor Cost Escalation Rate shall be the consensus estimated annual change in the Gross Domestic Product Price Indicator ("GDPPI") to escalate non-labor Base Expenses to determine the RAM Revenue Adjustment for each RAM Period. The GDPPI escalation rate shall be the consensus projection published by the Blue Chip Economic Indicators (Aspen Publishing) each February for the current RAM Period. In the event that the Blue Chip Economic Indicators forecast of the GDPPI is not available, the Consumer Advocate, Company, and other parties to the most recent rate case, with approval of the Commission, shall jointly select an alternative data source, or national economic index similar to GDPPI, as appropriate.
- The annual Labor Productivity Offset shall be fixed at 0.76 percent (76/100 of one percent) and will be subtracted from the Labor Cost Escalation Rates applicable to Base Expenses to determine the authorized RAM Revenue Adjustment for each RAM Period.
- The Base Expenses shall be the labor and non-labor operations and maintenance expense amounts approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. Base Expenses shall not include any fuel, purchased power, IRP/DSM, pension, Other Post-Employment Benefits ("OPEB"), or Clean Energy/Renewable Energy Infrastructure or any costs that are subject to recovery through separate rate tracking mechanisms.
- h) The Major Capital Projects shall be those capital investment projects that require an application before and approval by the Commission under the Commission's General Order No. 7, but excluding those projects included in the Clean Energy Infrastructure Surcharge.
- The Baseline Capital Projects shall be the total amounts of capital investment completed and closed to Plant in Service, excluding amounts related to Major Capital Projects.
- The Return on Investment shall be the overall weighted percentage rate of return on debt and equity capital approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case.

- The Authorized Return on Equity shall be the percentage rate of return on equity capital approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case.
- The Exogenous Tax Changes shall be the changes in tax laws or regulations that are estimated to impact RBA Target Revenues by two million dollars (\$2,000,000) or more.
- The Rate Base shall be the average net investment estimated for the RAM Period, including each of the elements of rate base reflected within the most recent rate case Decision & Order issued by the Commission, quantified in the manner prescribed in part (f) of Section 2 of the Rate Adjustment Mechanism.
- The RAM Revenue Adjustment to be applied to determine effective Target Revenues will be the lesser of a) the RAM Revenue Adjustment Calculation or b) the RAM Revenue Adjustment Cap.
- The RAM Revenue Adjustment Calculation shall be the change in the annual amount of revenue required for the utility to recover the sum of the O&M RAM Adjustment, Depreciation & Amortization RAM Adjustment, and Rate Base RAM - Return on Investment Adjustment, using the ratemaking conventions and calculations reflected within the most recent rate case Decision & Order issued by the Commission, quantified in the manner prescribed herein.
- The RAM Revenue Adjustment Cap shall be based on the Target Revenues determined in accordance with the RBA and RAM tariffs as provided below.
- The RAM Revenue Adjustment determined by this RAM Provision is to be recovered through the RBA Provision commencing on June 1 and over the subsequent 12 months after June 1.
- Earnings Sharing Revenue Credits shall be the amounts to be returned to customers as credits through the Revenue Balancing Account ("RBA") Provision, so as to implement the earnings sharing percentages and procedures described herein, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.
- s) Major Capital Projects Credits shall be the amounts to be returned to customers through the Revenue Balancing Account Provision, to reduce a preceding year's RAM Revenue Adjustment (including interest at the rate described in the RBA Provision) for specific major capital projects that were not placed into service within the first nine months of the preceding RAM Period HAWAIIAN ELECTRIC COMPANY, INC.

as expected. Because the Commission's review of the Major Capital Projects' actual costs incurred may not occur until the rate case after the RAM Revenue Adjustment for these Major Capital Projects is collected, Major Capital Projects Credits (including interest) will be returned to customers for the amount of Major Capital Projects costs that the Commission disallows for cost recovery. The Major Capital Projects Credits are to be refunded through the RBA Provision, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

t) Baseline Capital Projects Credits shall be the amounts to be returned to customers through the RBA Provision, to reduce a preceding year's RAM Revenue Adjustment (including interest at the rate described in the RBA Provision) for specific baseline capital projects that are disallowed by the Commission in a subsequent rate case if the disallowance reduces actual Baseline Capital Projects costs below the Baseline Capital Projects cost estimate derived using the method identified in part (f)ii. of Section 2 of the Rate Adjustment Mechanism below. Because the Commission's review of baseline capital projects may not occur until the rate case after such baseline capital projects are included in one or more RAM Revenue Adjustment filings, Baseline Capital Projects Credits shall be used to refund to customers any prior collections (i.e., Return on Investment on Rate Base and Depreciation, plus interest) relating to the amount of Baseline Capital Projects costs that the Commission subsequently disallows for cost recovery. The Baseline Capital Projects Credits are to be refunded through the RBA Provision, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

Rate Adjustment Mechanism

The Company shall file with the Commission, the Consumer Advocate and each party to the Company's most recent rate case proceeding, the schedules specified below:

Evaluation Period Earnings Sharing:

1. For the twelve month period ending December 31, of each year (the "Evaluation Period"), with the filing to be made no

HAWAIIAN ELECTRIC COMPANY, INC.

later than March 31, of the year following the conclusion of the Evaluation Period. The schedules will include the following:

- a) Company's recorded actual average net plant in service, accumulated deferred income taxes, inventory, working capital, and other rate base components. The schedules shall also show the utility's actual depreciation expense, operating and maintenance expense, income taxes, taxes other than income taxes, and other components of income for return, revenues, and actual capital structure, cost of debt, overall cost of capital, and return on common equity in the format set forth in the final order establishing the Company's latest effective rates.
- b) All applicable accounting and pro forma adjustments historically required in annual reports filed with the Commission.
- c) Pro-forma adjustments to remove from recorded revenues any out-of-period Earnings Sharing Revenue Credits or Major Capital Projects Credits recorded during the Evaluation Period, and
- d) A calculation comparing the achieved return on average common equity to the following earnings sharing grid, and indicating the Earnings Sharing Revenue Credit that should be recorded within the Revenue Balancing Account to effect the prescribed sharing of earnings above authorized levels:

HAWAIIAN ELECTRIC COMPANY, INC.

ROE at or below the Authorized ROE	Retained entirely by shareholders - no customer credits
First 100 basis points (one percent) over Authorized ROE	25% share credit to customers
Next 200 basis points (two percent) over Authorized ROE	50% share credit to customers
All ROE exceeding 300 basis points (three percent) over Authorized ROE	90% share credit to customers

HAWAIIAN ELECTRIC COMPANY, INC.

RATE ADJUSTMENT MECHANISM PROVISION (continued) RAM Period RAM Revenue Adjustment Calculation:

- 2) The Company shall provide additional schedules indicating the following proposed RAM Revenue Adjustment Calculation applicable for the RAM Period using the methodology set forth below:
 - a) The O&M RAM Adjustment shall adjust Base Expenses segregated between labor and non-labor components and treated as follows:
 - i. The labor component shall be quantified for the RAM Period by application of the Labor Cost Escalation Rate, reduced to account for the Productivity Offset to labor expenses, including payroll taxes. The part of Base Expenses that represents labor costs for merit employees shall not be subject to application of the Labor Cost Escalation rate, nor be reduced by the Productivity Offset.
 - ii. The Non-labor components shall be quantified for the RAM Period by application of the Non-labor Escalation Rate to non-labor Base Expenses. Nonlabor components shall exclude fuel, purchased power, pension/OPEBs, IRP/DSM or other rate adjustment provisions.
 - b) Depreciation and Amortization RAM Adjustment shall be quantified for the RAM Period by application of Commission-approved accrual rates and methods to the actual recorded Plant in Service balances at the end of the Evaluation Period.
 - c) The Rate Base RAM Return on Investment Adjustment shall be determined by multiplying the applicable Pretax Rate of Return times the change in Rate Base. The Pretax Rate of Return shall include related income taxes on the equity components of the Return on Investment rate approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. The quantification of Rate Base is specified in greater detail in part (f) of this Section 2.
 - d) The revenue impact of any Exogenous Tax Changes shall be included in the RAM Period calculation of the RAM Revenue Adjustment.
 - e) Revenue taxes shall be adjusted to account for the change in parts (a) through (e) of this Section 2.
 - f) Rate Base for the RAM Period shall be quantified as follows:

HAWAIIAN ELECTRIC COMPANY, INC.

- i. Plant in Service, Accumulated Depreciation, Accumulated Deferred Income Taxes and Contributions in Aid of Construction ("CIAC") shall be a two-point average of actual recorded balance sheet data at December 31 of the Evaluation Period, plus projected values at December 31 of the RAM Period determined as prescribed in parts (ii) through (v), below.
- ii. Plant in Service shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period, the simple average of Baseline Capital Projects plant additions recorded in the immediately preceding five calendar years, plus the estimated cost of completed Major Capital Projects that are anticipated to be in service by September 30 of the RAM Period. The cost of Major Capital Projects shall be limited to the dollar amounts previously approved by the Commission, and shall be included at the level of recorded costs if recorded costs are lower than the budget amounts approved by the Commission, and the Commission has not yet reviewed the project costs in a rate case.
- iii. Accumulated Depreciation at December 31 of the RAM Period shall be quantified by increasing the recorded balances at December 31 of the Evaluation Period by the amount set forth in Section 2 part (b) above, consistent with rate-making treatment.
 - iv. CIAC shall be quantified by adding to the recorded balance at December 31 of the Evaluation Period an estimate of the net change for the RAM Period. The net change shall be based on a simple average of cash and in-kind CIAC for the immediately preceding five calendar years for programs (i.e., numerous low cost capital projects) plus specific engineering estimates of any contributions for the Major Capital Projects anticipated to be in service by September 30 of the RAM Period.
 - v. Accumulated Deferred Income Taxes shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period the estimated tax effect of the depreciation timing difference (i.e., difference between book depreciation and tax depreciation) on the Baseline Capital Projects and Major Capital Projects added to rate base during the RAM Period.
 - vi. Working Cash and all other elements of rate base not specifically addressed above shall be fixed at the dollar amount approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. These elements of rate base shall be held constant until revised by a future Commission Decision & Order in a general rate case.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013.

g) See also Settlement Agreement section below.

RAM REVENUE ADJUSTMENT CAP

The RAM Basis for the calculation of the RAM Revenue Adjustment Cap shall be the target revenues determined in accordance with the RBA tariff based on the results of the Company's most recent final rate case decision. The RAM Basis shall be adjusted 1) as described below in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment and the 2014 Depreciation and Amortization RAM Adjustment, and 2) to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the Commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Revenue Adjustment Cap.

The RAM Revenue Adjustment Cap shall be calculated as the RAM Basis, multiplied by the cumulative annually compounded increase(s) in the GDPPI for the years between the rate case calendar test year that established the RAM Basis and the RAM Period, adjusted to include applicable revenue taxes.

The RAM Revenue Adjustment Cap will apply to the entire RAM Revenue Adjustment, which includes the O&M RAM Adjustment, Depreciation and Amortization RAM Adjustment, and Rate Base RAM - Return on Investment Adjustment.

Exception to the calculation of the RAM Revenue Adjustment Cap:

For the calculation of the RAM Revenue Adjustment Cap for the 2015 RAM Revenue Adjustment and for each subsequent year's calculation of RAM Revenue Adjustment until the issuance of a final decision and order in the next rate case, the Target Revenues that will serve as the RAM Basis will be the 2014 annualized target revenues adjusted as described below. The 2014 RAM Revenue Adjustment used to determine the adjusted 2014 target revenues will be adjusted to use recorded 2014 end-of-year actuals for plant in service, accumulated depreciation and amortization, CIAC and accumulated deferred income taxes in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment. For the determination of the 2014 Depreciation and Amortization RAM Adjustment, the Company applies the Commissionapproved accrual rates and methods to the 2014 end of year balances calculated above. There is no impact to the O&M RAM Adjustment The RAM Basis shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically order by the Commission, as described above.

HAWAIIAN ELECTRIC COMPANY, INC.

REVISED SHEET NO. 93H Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION (continued)

The RAM Revenue Adjustment Cap for year 2015 and for each subsequent year until the issuance of a final decision and order in the next rate case shall be calculated as the RAM Basis, multiplied by the cumulative annually compounded increase(s) in the GDPPI for the years between 2014 and the RAM Period, adjusted to include applicable revenue taxes.

Evaluation Procedures

Complete, indexed workpapers and electronic files supporting the RAM Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits Schedules shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, coincident with the Annual Evaluation Date filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The RAM Revenue Adjustment, and any prior year RAM Revenue Adjustments, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis of prior calculations. The effect of such changes to the RAM Revenue Adjustment shall be implemented as described in the Revenue Balancing Account Provision.

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before the June 1 effective date of the RBA Rate Adjustment described in the RBA Provision tariff, the RBA Rate Adjustment incorporating the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits shall go into effect on the June 1 effective date, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

Notice

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual filing pursuant to this tariff. The notice to customers shall include the following information:

HAWAIIAN ELECTRIC COMPANY, INC.

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

SETTLEMENT AGREEMENT

The provisions in this section are for the sole and limited purpose of implementing the Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed in Docket No. 2008-0083, which the Commission approved in Order No. 31126, issued on March 19, 2013.

The Company will include in the Rate Base RAM - Return on Investment Adjustment and the Depreciation and Amortization RAM Expense Adjustment, in 2013 and subsequent years, the recoverable costs of the Campbell Industrial Park Combustion Turbine Unit 1 ("CIP CT-1") and the Customer Information System ("CIS") projects, net of the Stipulated and Commission approved project cost write-downs and as otherwise provided for in the Stipulated Settlement Agreement. Recovery of the CIS costs through the RAM Revenue Adjustment is for the sole purpose of this settlement agreement and does not constitute a precedent for the recovery of any other software or regulatory asset deferred costs through the RAM Revenue Adjustment.

In accordance with the Stipulated Settlement Agreement and for only the 2014, 2015, and 2016 RAM Periods, Hawaiian Electric will be allowed to record the 2014, 2015, and 2016 RAM Revenue Adjustments, effective January 1 through December 31 of the calendar year (once the Company is able to determine the amount). The Company shall be allowed to collect the accrued RAM Revenue Adjustment amounts, pursuant to this provision, through the RBA Rate Adjustment from June 1 of each year to May 31 of the following year.

When the Company implements a Commission Decision & Order for any rate case test year within 2014, 2015, or 2016, the accrual of RAM Revenue Adjustment amounts for that test year, if still in progress, shall terminate. The Company will adjust the RBA Rate Adjustment to collect any accrued but unrecovered RAM Revenue Adjustment amounts for that year.

COMMISSION'S AUTHORITY

The Commission may suspend any or all parts of this Rate Adjustment Mechanism Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

ATTESTATION

Tayne S. Y. Sekimura, is the Senior Vice President & Chief Financial Officer of Hawaiian Electric Company, Inc., and says that she certifies that the attached Schedules supporting the proposed changes in customer rates pursuant to the Revenue Balancing Account ("RBA") Provision have been prepared in compliance with the Rate Adjustment Mechanism Provision and the RBA Provision, and prior Commission rate orders are true, correct and complete to the best of her knowledge and belief.

Tayne S. Y. Sekimura

Attachment 2 – List of Schedules and Workpapers

Schedule A	HECO-WP-A-001
Schedule A1	HECO-WP-A1-001
Schedule B	HECO-WP-A1-002
Schedule B1	HECO-WP-B-001
Schedule B2	HECO-WP-B-002
Schedule C	HECO-WP-B-003
Schedule C1	HECO-WP-B-004
Schedule C2	HECO-WP-B-005
Schedule D	HECO-WP-B-006
Schedule D1	HECO-WP-B-007
Schedule D2	HECO-WP-B-008
Schedule D3	HECO-WP-B-009
Schedule D4	HECO-WP-B-010
Schedule E	HECO-WP-B-011
Schedule F	HECO-WP-B-012
Schedule F1	HECO-WP-B-013
Schedule F2	HECO-WP-B-014
Schedule G	HECO-WP-B-015
Schedule G1	HECO-WP-B-016
Schedule G2	HECO-WP-B-017
Schedule G3	HECO-WP-C-001
Schedule H	HECO-WP-C-002
Schedule H1	HECO-WP-C-003
Schedule I	HECO-WP-D1-001A
Schedule J	HECO-WP-D1-001B
Schedule K	HECO-WP-D2-001
Schedule K1	HECO-WP-D2-002
	HECO-WP-D3-001
	HECO-WP-D4-001
	HECO-WP-D4-002
	HECO-WP-D4-003
	HECO-WP-D4-004
	HECO-WP-E-001
	HECO-WP-F-001
	HECO-WP-F1-001
	HECO-WP-F1-002
	HECO-WP-G2-001
	HECO-WP-H-001
	HECO-WP-H-002
	HECO-WP-H-003
	HECO-WP-H-004
	HECO-WP-H-005
	HECO-WP-H-006
	HECO-WP-H-007
	HECO-WP-H-008
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HECO-WP-K-001 HECO-WP-K-002

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF 2017 REVENUE BALANCING ACCOUNT RATE ADJUSTMENT

Line No.	Description (a)	Reference (b)	Amount (c)	Rate Amount (d)
	RECONCILIATION OF RBA BALANCE:			
1	RBA Prior calendar year-end balance	Schedule B	\$ 43,227,612	
2	Revenue Tax Factor	Schedule C	1.0975	
3	Revenue for RBA Balance			\$ 47,442,304
	RATE ADJUSTMENT MECHANISM "RAM" AMOUNT:			
4	Total RAM Revenue Adjustment Allowed (Note 2)	Schedule A1		\$ 101,131,452
5 5a	EARNINGS SHARING REVENUE CREDITS - 2017 ROE: ESM Adjustment - 2012 (Note 3)	Schedule H Schedule H1		\$ - \$ (15,526)
6	PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS:	Schedule I		s -
7	TOTAL RBA REVENUE ADJUSTMENT	Sum Col. (d)		\$ 148,558,229
8	GWH SALES VOLUME ESTIMATE JUNE 2017 - MAY 2018	HECO-WP-A-001		6,664.400
9	RBA RATE ADJUSTMENT - cents per kWh	Note (1)		2.2291
10	MONTHLY BILL IMPACT @ 600 KWH MONTHLY BILL IMPACT @ 500 KWH			\$ 13.37 \$ 11.15
	Note (1): 2017 RBA Rate Adjustment Breakdown RBA Balance	Col. (d) \$ 47,442,304	Rate Adjustment cents per kWh 0.71187660	Percentage Share 31.9352%
	RAM Amount	\$ 101,131,452	1.51748772	68.0753%
	Earnings Sharing Revenue Credits Major or Baseline Capital Projects Credits	\$ (15,526) \$ - \$ 148,558,229	-0.00023297 0.00000000 2.22913135	-0.0105% 0.0000% 100.0000%

Note (2): Total RAM Revenue Adjustment Allowed is the sum of the RAM Cap + Exceptional and Other Projects. See Order No. 32735, filed March 31, 2015, paragraph 107, page 94, which states that the Total RAM Revenue Adjustment is to be comprised of the RAM Cap plus recovery of Exceptional And Other Matters.

Note (3): The adjustment on line 5a represents additional refunds plus interest for the period June 2013 through May 2017. In July 2016, the Companies discovered the interest expense accrued for financial statement purposes had erroneously been overstated since May 2012 due to the incorrect programming of a report developed when the Customer Information System was implemented. The report miscalculated accrued interest on released deposits and for deposits that had been transferred to the new Customer Information System. The misstatement was deemed immaterial and no prior period adjustment was warranted for financial reporting purposes. However, it resulted in an understatement of the Earnings Sharing Mechanism in the 2013 Annual decoupling filing when the ESM was triggered. See Schedule H1 for the recalculation of the Earnings Sharing Mechanism in that year.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TOTAL RAM REVENUE ADJUSTMENT ALLOWED

Line No.	Description	Reference		Amount
	(a)			
	RAM REVENUE ADJUSTMENT DETERMINED ACCORDING 1	O EXISTING TARIFFS AND PF	ROCED	URES
1	O&M RAM	Schedule C	\$	23,380,733
2	Rate Base RAM - Return on Investment	Schedule D	\$	66,238,985
3	Depreciation & Amortization RAM Expense	Schedule E	\$	47,364,714
4	Total RAM Revenue Adjustment		\$	136,984,432
5	Less: Adjustment for Change in On-cost Clearing Allocation	Note 3	\$	(8,821,951)
6	Total Adjusted RAM Revenue Adjustment		\$	128,162,481
	RAM REVENUE ADJUSTMENT CAP			
7	RAM Cap for 2017 RAM Revenue Adjustment	Schedule J	\$	97,742,487
8	Plus: Exceptional and Other Matters	Schedule K	\$	3,388,964
9	2017 Cap - Total RAM Revenue Adjustment (Note 2)		\$	101,131,452
10	Total RAM Revenue Adjustment Allowed (Note 1)	Lesser of Line 6 or Line 9	\$	101,131,452
				To Sch A
Note 1	RAM Revenue Adjustment Allowed: See Order No. 32735, filed March 31, 2015, paragraph 106, pag "The RAM Revenue Adjustment to be applied to determine effect Revenue Adjustment determined according to existing tariffs and ("RAM Cap) to be calculated as specified."	tive Target Revenues will be the		
Note 2	Total RAM Cap: See Order No. 32735, filed March 31, 2015, paragraph 110, pag "The RAM Cap will apply to the entire RAM Revenue Adjustmen Major Capital Projects and Baseline Projects), and the Deprecial	t including the O&M RAM, Rate I	Base R/	AM (including
Note 3	Order No. 32866, par. 18 required the Company to adjust its 201 expense reduction impact associated with the change in on-cost adjustment made to the 2015 RAM revenue adjustment was bas on-cost clearing allocation. In calculating the 2017 RAM revenue	clearing allocation identified by to ed on the 2014 O&M expense in a adjustment determined according	the Com	npany. The the change in

and procedures, the adjustment has been updated to reflect the 2016 O&M impact of the change in on-cost clearing

allocation. See HECO-WP-A1-001 for the calculation.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK SUMMARY OF ACCUMULATED REVENUE BALANCING ACCOUNT

Line No.		Month (e)		Beginning Balance (b)	_	Target Revenues (c)	_	Recorded Adjusted Revenue (d)	_	/ariance to RBA (e)		fjustment for prior year RBA accrual (f)		Adjustment (g)	_	Tex-effected Betance Subject to Interest (h)	_	Interest at 1,75%/year 0)	_	Ending Balanco (j)
	Monthly	RBA Balance	and A	ctivity (Monthly	PUC	Rpt., Pg. 9A)														
\$	2015	December	\$	46,800,162	\$	48,247,991	\$	45,122,645	\$	3,125,348	\$	(4,877,639)	\$	158	\$	28,055,078	\$	40,914	\$	45,088,941
2				ustment - Note															S	11,204
3				ustment - Note	(1)														-	276,538
•		REVISED 20	15 Dec	ember															5	45,376,681
э 4	2018	January	5	45,088,941	\$	47,308,677		43,233,334		4,075,343	s	(4.634,357)	•	_	\$	27,374,083	ŧ	39,921		44,569,848
7		February	Š	44,569,848	Š	42,407,239		41,404,808		1,002,431	Š			309.769	Š	28,384,817		38,478	č	41,539,011
8		March	Š	41,539,011	s	47,308,677		43,945,263		3,363,414	5			130.764	Š	25.093.985	š	36,595	Š	40.520.971
9		April	š	40,520,971	š	45,793,747		42,792,611	Š		Š			113,233	Š	24,332,432	-	35,485	5	39,082,213
10		May	Š	39,062,213	5	49,296,788		46,044,763	Š	3,252,025	Š			15.028	Š	23,384,678	Š	34,103	Š	37.514.982
11		June	\$	37,514,982	5	50,202,656		44 354 039	\$		\$			22,849	\$	23,559,581	Š	34,358	5	39,628,174
12		July	5	39,828,174	5	51,980,790	\$	47,632,161	5	4,348,829	\$	(4,131,705)	\$	42,035	5	24,300,790	s	35,439	s	39,922,572
13		August	\$	39,922,572	\$	53,581,111	\$	49,694,341	\$	3,686,770	\$	(4,323,881)	\$	-	\$	24,255,184	\$	35,372	S	39,520,833
14		September	S	39,520,833	5	51,447,350	\$	48 441 855	\$	5,005,495	\$	(4,085,864)	\$	(144,868)	\$	24,335,678	5	35,490	\$	40,331,086
15		October	\$	40,331,086	\$	52,040,061	\$	47,122,581	\$	4,917,480	S	(4,075,714)	\$	10,348	5	24,901,699	\$	36,315	\$	41,219,515
16		November	S	41,218,515	\$	48,957,982		43,941,301	\$	5,016,681	\$	(3,736,832)	\$	70,699	\$	25,815,115	\$	37,355	\$	42,607,398
17		December	\$	42,607,398	\$	48,957,962	s	44,527,809	\$	4,430,153	S	(3,844,438)	\$	(4,678)	S	26,204,766	\$	38,215	\$	43,226,450
18				ustment - Note ((1)														\$	1,182
19		REVISED 20	16 Dec	ember															\$	43,227,812
20																				To Sch A
21		January	\$	•	\$	48,009,823	\$	•	\$	-	\$	•	\$	•	5	•	5	•		-
22		February	\$	-	5	43,030,848	S	-	\$	-	S	-	S	-	\$	-	\$	-	\$	•
23		March	ş	-	\$	48,009,623	S	-	S	-	\$	-	\$	-	5	•	\$	•	\$	•
24		April	3	•	\$	46,468,574	\$	•	\$	-	\$	-	\$	•	5	•	5	•	5	•
25		May	3	-	5	50,024,842	\$	•	\$	•	5	•	5	-	5	-	5	-	S	•
26		June	,	-	2	51,184,359 52,997,265	S	-	3	-	,	-	۶	-	3	-	•	•	5	•
27 28		July	•	•	•	54,628,879	\$ \$	•	•	-	5	-	•	:	5	•	•	•	5	-
26 29		August September	•	•	•	52,453,393	5	•	•	•	٠	:	•	•	S	•	•	•		-
30		October	•	-	5	53,057,695	S	-	3	-	5	-	•	-	S	•	;	-	\$	•
31		November	:		•	49,915,328	S	:	Š	:	•	- :	Š	:	,	•	;	•	S	•
32		December	5	•	S	49,915,326	Š	•	•		5		š	•	s	•	S		S	-
32		Coccinion	•	-	•	40,010,040	•	-	•	•	•	-	•	-	•	-	•	-	•	-
	Sources	of Oata:				Sch, 81		Sch B2		Cols (c)-(d)		Note (2)		Note (1)	c	ob ((b)+(g)+((e)+(f))/2)/(f)			Cal	s (b)+(e)+(f)+(g)+(i)

Composite Federal & State Income Tax Rate Income Tax Factor (1/1-tax rate)

38,91% (k) 1.636929121 (f) (See HECO-WP-F-001)

Note (1): Adjustment Summary:

		Workpaper	RBA True-up Adjustment	RBA Interest	Total	
Year	Month	Reference	Sch 82, Line 19	Adjustments	Adjustment	Adjustment Description
2016	February	HECO-WP-B-002	11,204		11,204	Prior period adjustments
2016	February	HECO-WP-B-003	274,640	1,896		Prior period adjustments (prior to 2016)
2016	February	HECO-WP-8-003	21,773	256		Prior period adjustments (on and subsequent to January 1, 2016)
2018	March	HECO-WP-8-004	123,827	1,698	125,525	Prior period adjustments
2016	March	HECO-WP-8-005	5,239	-	5,239	Prior period adjustments
2016	April	HECO-WP-8-006	107,221	6,012	113,233	Prior period adjustments
2018	May	HECO-WP-8-007	15,028	•	15,028	Prior period adjustments for multiple customors
2016	June	HECO-WP-B-008	22,849		22,849	Prior period adjustments for multiple customers
2016	July	HECO-WP-8-009	42,035		42,035	Prior period adjustments
2016	September	HECO-WP-8-010	(144,043)	(825)	(144,888)	Prior period adjustments
2016	October	HECO-WP-8-011	10,348		10,348	Prior period adjustments for multiple customers
2016	November	HECO-WP-8-012	35,150	-	35,150	Prior period adjustments for multiple customers
2016	November	HECO-WP-B-013	21,608		21,608	Prior period adjustments for multiple customers
2016	November	HECO-WP-8-014	13,941	-	13,941	Prior period adjustments for multiple customers
2016	December	HECO-WP-B-015	(4,878)	-	(4,878)	Prior period adjustments
2017	January	HECO-WP-B-016	1,162	•	1,182	Prior period adjustments

Note (2):
Amounts represent recovery of prior years' RBA balance through the RBA rate adjustment effective June 1, 2015 for the period June 2015 through May 2018 and June 1, 2016 for the period June 2016 through May 2017. See WP-8-001.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Line No.	Description	Reference		2	locket No. 1010-0080 Amounts		Docket No. 2010-0080 Amounts	:	Docket No. 2010-0080 Amounts		Docket No. 2010-0080 Amounts	2	ocket No. 010-0080 Amounts	2	ocket No. 010-0080 Amounts
	(a)	(b)			(c)	_	(d)	_	(e)		(1)		(g)		(h)
1	Last Rate Case Annual Electric Revenue at Approved Rate Levels	Note (1)	\$000s	s	1,765,954	s	1,765,954	s	1,765,954	\$	1,765,954	\$	1,765,954	\$	1,765,954
2	Less: Fuel Expense	Note (1)	\$000s	\$	(658,172)	\$	(658,172)	5	(658,172)	\$	(658,172)	s	(658,172)	5	(658,172)
3	Purchased Power Expense	Note (1)	\$000s	\$	(438,707)	\$		5	(438,707)	\$	(438,707)	S	(438,707)	5	(438,707)
4	Revenue Toxes on Line 1 (8.885% statutory rates)		\$0002	<u> </u>	(155,905)	<u>\$</u>	(156,905)	_5_	(156,905)	<u>\$</u>	(156,905)	<u> </u>	(156,905)	<u> </u>	(156,905)
5	Last Rate Order Target Annual Revenues	Sum Lines 14	\$000s	\$	512,170	\$	512,170	\$	512,170	\$	512,170	\$	512,170	\$	512,170
6	Add: Authorized RAM Revenues	Note (2)	\$000s	5	77,370	\$		\$		\$		s		5	
7	Less; Revenue Taxes on Line 6 at 8,685%		\$000s	\$	(6,874)	5		\$		\$		\$	<u> </u>	5_	
8	Net RAM Adjustment - Test Year +4	Lines 6+7	\$0003	5	70,495	\$	70.495	\$	-	\$	•	\$		\$	•
9	Authorized RAM Revenues	Note (3)	\$000s	\$	-	\$		\$	88,395	s	88,395	s	-	\$	-
10	Less: Revenue Taxes on Line 9 at 8.885%		\$000s	5	-	5	-	\$	(7,854)	\$	(7,854)	\$		5	-
11	Net RAM Adjustment - Test Year +5	Lines 9+10	\$000x	5	•	\$	•	\$	80,541	\$	80,541	\$	•	\$	•
12	Authorized RAM Revenues	Sch. A. Line 4	\$000a	s		\$		\$		5		5	101,131	\$	101,131
13	Less: Revenue Taxes on Line 12 at 8.885%		\$000s	5		\$	· .	\$		\$		5	(8.986)	5	(8,986)
14	Net RAM Adjustment - Test Year +6	Lines 12+13	\$000%	\$	-	3	-	\$	•	\$	•	\$	92,146	3	92,146
15	Less: EARNINGS SHARING REVENUE CREDITS		\$000s	\$		5		\$		\$		5	(16)	5	(16)
16	Less: Revenue Taxes on Line 15 at 8.885%		\$000s	5	-	\$	_	\$		5		5	1	\$	ìí
17	Net Earnings Sharing Revenue Credits	Lines 15 + 16	\$000s	\$		\$		3		3	-	\$	{14}	\$	(14)
18	PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS:	Sch. A. Line 6	\$000s	<u>s</u>		<u>s</u>	-	5		<u>\$</u>		\$_	·	<u>\$</u>	
19	Total Annual Target Revenues														
20	June 1, 2015 Annualized Revenues wRAM Increase	Cot (c), lines (5+8+17+18)	£000a	s	582,665	s	582,665								
21	June 1, 2016 Annualized Revenues w/RAM Increase	Col (e), lines (5+11+17+18)	\$0000	•	502,505	•	302,000	s	592,711	\$	592,711				
22	June 1, 2017 Annualized Revenues w/RAM Increase	Col (g), lines (5+14+17+18)						-		•		5	604,302	\$	604,302
23	Distribution of Target Revenues by Month:	Note (4)	Note (5)		2015	_	2016		2016		2017		2017		2018
24	January	5,10%	8.26%				\$47,308,677				\$48,009,623				\$48,948,443
25	February	7.25%	7.41%				\$42,407,239				\$43,030,648				\$43,872,308
26	March	8.10%	0.26%				\$47,308,677				\$48,009,623				\$48,948,443
27	April	7.84%	8.00%				\$45,793,747				\$48,468,574				47,377,258
28	May	8,44%	8,61%				\$49,296,788				\$50,024,042				\$51,003,069
29	June	0.47%	6.62%		\$48,047,584				\$50,202,656				\$51,184,359		
30	Judy	0.77%	8.95%		\$51,226,633				\$51,980,790				\$52,997,265		
31	August	9.04%	9.21%		\$52,792,780				\$53,581,111				\$54,628,879		
32	September	0.68%	0.86%		\$50,702,234				\$51,447,350				\$52,453,393		
33 34	October	8,78%	8,96%		\$51,284,900				\$52,040,061				\$53,057,695		
34 35	November December	8.26% 8.26%	8,43%		\$48,247,991				\$48,957,962				\$49,915,326		
35 36	Total Distributed Target Revenues	100.00%	100.00%		\$48,247,991 350,550,113	_	\$232,115,128		\$48.957,962 357,167,892	_	235,543,510		549,915,326	-	240,149,521
30	Loren resonanten Tenfer Leacones	100.00%	100.0076	,	330,330,113		3232,113,125	•	337,107,692	3	233,343,510	•	364,152,243	•	240,148,321

Footnotes:

- Docket No. 2010-0030 amounts derived from Order No. 30576, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012.
 Transmittal 15-03 filed June 3, 2015, revising 2015 target revenue effective June 8, 2015.
 Transmittal 16-01 filed March 31, 2016, establishing 2016 target revenue effective June 1, 2016.
 RBA Tariff Revised July 26, 2011 to reflect 2011 tost year.

5	Derivation of RAM Revenue Allocation, for June 8, 2015 to May 31, 2016							
		June is a partial month						
	January	8.10%	5.26%					
	February	7.26%	7.41%					
	March	8.10%	8.26%					
	April	7.84%	8.00%					
	May	8.44%	8.61%					
	June- effective date of RAM Change is June 8, 2015	6.49%	6.62%					
	Judy	8,77%	8.95%					
	August	9.04%	9.21%					
	September	8.68%	8.86%					
	October	8,78%	8,96%					
	November	8.26%	8,43%					
	December	8.26%	8.43%					
Total	Distributed Target Revenues	98.02%	100,00%					

44,527,809

43,941,301

47,122,561

46,441,855

19 694 341

47,632,161

44,354,039

46,044,763

42,702,611

43,945,253

41,404,608

43, 233, 334

HAWAIIAN ELECTRIC COMPAYY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RECORDED ADJUSTED REVENUES

. HECO-WP-8-001, pg. 1 4,219,325) HECO-WP-8-001, pg. 2 5,354 (4,430,153) (432,002) 466,139 349,205 147,327 8,776 323 (4) 20,749,337 (14,593,432) (424,437) (119,533) 125,471,576 (1,708,604) (11,584,105) (49,218,428) (20,763,980) (4,878) 2,659 2,074,346 (977,109) (424,634) (1,147,333) August 2016 September 2016 October 2016 November 2016 (1) (1) (1) (1) (1) (1) 2,209,443 126,628,541 (62,300,733) 122,014,176 (1,851,718) . (4,101,226) 2,039,600 159,234 1,809,300 (523,087) (1) (11,276,018) (47,71,622) (20,129,115) 64,117 2,348 (77,592) (5,016,661) (489,195) 438,225 352,630 161,428 211 (125) 2,758 21,262,025 (14,158,560) 116 (411,825) (512,303) (2,198,834) (2,386,206) (1,386,233) 4,662,604 (81,083,951) 125,025,262 360 (13) (1,947) (15,448,753) (15,448,753) (15,448,753) (15,448,753) (12,468,753) (12,208,688) (22,078,537) (22,078,537) 2.515,400 (1,539,168) 975,300 (376,400) 134,444,994 (4,473,154) (880,985) (84,622,081) 2,510,338 131,744,562 9,011 305 (4) 17,00,603 (15,700,603) (453,724) (120,219) (124,724,12) (23,432,613) (124,614) (23,432,613) (144,043) 138,857,935 (4,484,284) (144,043) (14,046) 5,005,495 488,106 (8,911) 312,700 (1,539,166) 722,200 (376,400) 69,785,949 (74,240,535) (4,454,588) 29,448 158,089 (5,005,485) (488,106) 754,071 1,403,000 591,913 [4,454,034] 32,514,356 135,998,391 (4,745,520) 140,891,711 (1,880,810) (1,475,500) (1,539,160) (61,200) (376,400) 387 (1) 27 21,918,488 (17,028,919) (128,284) 7 (12,741,508) (54,415,690) (22,857,503) 2,240 1 (470,828) 379,014 (2,115,472) 3,014,688 852,220 437,600 (379,014) 296,909 (389,010) (164,120) (88,154,360) (3 032 002) (1,282,100) 137,848,701 (25,653) 396 23,987,778 (16,463,436) (428,524) (100,144) 8 (11,670,922) (49,105,759) 42,035 1,884 125,910,559 (1,556,298) (4,534,605) 685,100 (756,200) 903,200 (2,165,902) (84,206,322) 71,570,633 (63,050,821) 6,519,812 (1.044.592) 7,475,220 124,363,264 131,638,483 (1,420,513) (1,420,513) 272 (8,303) (4,162,457) 2,576,700 (756,200) (1,378,900) (2,165,689) 8,303 358 (13) 163 20,275,127 (16,565,637) (16,691) (23,428) (60,694) (11,100,002) 63,050,821 (65,129,277) (2,078,455) (5,848,617) (5,848,617) (570,322) 838,492 1,976,643 833,929 557,250 . (3,824,018) (1,820,500) 593,452 3,544,799 18,937 (74,801,194) (1,521,205) 120,676,438 119,155,233 110,883,072 (1,290,567) 76,756 (88,021) 4,181 (10,926,915) (45,415,193) (19,180,272) 15,028 1,751 799,050 2,061,190 (756,200) 685,400 (2,165,899) 335 . . 28,424,770 (14,523,799) (90,730) (394,397) (789.060) 2.555,431 (1.304.600) (1.734.650) 1.280,489 39,154 13 (20.989) (317,116) (317,116) (317,116) (345,724) (345,724) (317,116) (345,123) (70,981,551) (5,321,173) (912,099) 7,377,054 117,026,314 May 2018 (5,058,017) 245 (11) 28,049,046 (14,745,720) (112,034) (335,972) (92,948) 3,577 3,577 (11,428,719) (47,897,909) (20,203,489) (07,211 740,632 (20,300) (1,599,332) 1,572,700 (954,034) (5,369,124) (740,632) (4,102,828) (415,632 415,284 (668,865) 3,393 91 (66,497) (65,880,509) 10,456 3,001,138 292,653 (1,856,976) 08,653,120 114,022,244 April 2018 (e) (1,229,501) (8,433) 8,433 (772) (172) (13,278) (10,555) (240,615) (240,615) (10,415,419) (43,641,398) (18,158,789) (18,158,789) (4,992,387) 2,223,016 234,900 (1,599,334) 2,973,300 (954,033) (2,223,016) 4,014,459 1,384,434 (829,789) (2,019,267) (5,688) 178 (18,431) (341,652) (3,363,414) (327,980) (206,458) (2,750,638) (1,160,470) 5,869,809 (87,845,722) 106,022,178 February 2016 Merch 2018 (c) (d) 1,718,330 111,891,985 1,311,894 745,434 25,574 (441,087) 5,328 283 12,495 (307,614) (41,092, (1,324,760) 56,200,791 (63,197,764) (6,998,972) 853,800 (1,599,334) 1,395,100 (954,033) (203) (3) 22,135,543 (13,651,705) (105,642) (260,024) (100,355) (40,720,233) (40,720,233) (40,720,233) (40,720,233) (4,808,775) 29,997 1,002,431 07,751 (64,698,634) (3,675,609) (10,672,581) 116,774,324 100,101,742 1,179,800 (4,956,434) 2,129,300 262,000 (348) 317 (6) (56) 18,332,012 (12,809,045) (113,252) (249,872) (90,242) (10,829,511) (45,482,871) (19,189,825) 1,741,868 3,775,834 (301,349) (2,391,300) 3,671 3,671 (0,997) (1,323,136) 4,075,343 (4,075,343) (397,403) 85,173 (1,801,879) (675,819) 783,623 116,812,580 (5,080,272) (1,099,206) (74,383,069) 117,596,403 Recovery of 12-31-14 RBA balance through RBA Rate Adjustment togánning 8-1-15 Recovery of 12-31-15 RBA balance through RBA Rate Adjustment togánning 8-1-16 Adva accutal
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4OTE: Totals may not add exactly due to rounding

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF O&M RAM ADJUSTMENT (\$ In Thousands)

Line No.	Decription	Reference	Docket N 2010-000 Approve	80	Footnote 4 Previously Approved RAM	- 1	M Subject to Escalation Iol (c) + (d)	Net Inflation Indices Footnote 2	Ac	2017 &M RAM ljustment ol (e) * (f)	
	(a)	(b)	(c)		(d)		(e)	(f)		(g)	
1	Base BU Labor Expenses	Schedule C1	\$ 51,	224		\$	51,224	13.18%	s	6,751	
2	Base Non-Labor Expense	Schedule C2	\$ 139,	463		\$	139,463	9.99%	s	13,932	
3	Payroll Taxes	Footnote 1	\$ 4,	708		s	4,708	13,18%	\$	620	
4	Subtotal Expense Increase - RAM Adju	stment before rev	enue taxes						\$	21,304	
5	Revenue Tax Factor (Footnote 3)									1.0975	
6	O&M RAM (SubTotal Expenses x Rev	Tex Factor)							\$	23,381	To Sch A1
	Footnotes:				_						
	 Payroll Taxes per Interim D&O in Doc Less: Portion of payroll taxes related Payroll Taxes related to Bargaining U 	l to non-BU labor ⁴				\$ \$ \$	8,905 (4,197) 4,708				
	^A See Schedule C1 for calculation	of percentage re	lated to non-	BU la	bor,						
	2: Escalation Rates										
	Labor: Bargaining Unit Wage Increase	2012 2.46%	2013 2.	88%	2014 3.00%		2015 2.91%	2016 3,07%		2017 2.75%	(See HECO-WP-C-001)
	Less: Labor Productivity Offset	0,76%	0.	76%	0.76%		0.76%	0.76%		0.76%	Approved in Final D&O in Docket No. 2008- 0274, page 51, filed on August 31, 2010
	Labor Cost Escalation Rate	1,70%	2.	12%	2.24%		2.16%	2.31%	_	1.99%	
	Calculation of 2012-2017 Compounds	ed Labor Cost Esc	alation								
	2012 Labor Cost Escalation			170	A (2012 labor e						
	2013 Labor Cost Escalation			212	B (2013 labor e						
	2014 Labor Cost Escalation			224	C (2014 labor e						
	2015 Labor Cost Escalation 2016 Labor Cost Escalation			215	D (2015 labor e						
	2017 Labor Cost Escalation			231 1199	E (2016 labor e F (2017 labor e						
	2012-2017 Compounded Labor Co.	st Escalation		318	G = A . B . C .						
	2012-2017 Compounded Labor Co			318	H=G-1						
	Non-Labor,	2012	2013		2014		2015	2016		2017	
	GDP Price Index	1,70%		.70%	1.60%		1,10%	1.50%		2.00%	(See HECO-WP-C-002)
	Calculation of 2012-2017 Compounds	ed Non-Labor Cos									
	2012 Non-Labor Cost Escalation			170	A (2012 non-lat						
	2013 Non-Labor Cost Escalation			170	8 (2013 non-lat						
	2014 Non-Labor Cost Escalation 2015 Non-Labor Cost Escalation			160			scalation plus 1)				
	2016 Non-Labor Cost Escalation			1110 1150	D (2015 non-lat						
	2017 Non-Labor Cost Escalation			200	E (2016 non-late F (2017 non-late						
	2012-2017 Compounded Non-Labo	r Cost Escalation		999	G=A'B'C'						
	2012-2017 Compounded Non-Labo			999	H=G-1						
	3; Computation of Revenue Tax Factor										
	Public Service Tax Rate		0.05								
	PUC Fees Rate Franchise Tax Rate		0.00 0.02								
	Total Revenue Tax Rate		0.08								
	Revenue Tax Factor										
	= 1 / (1 - Total Revenue Tax Rate))	1.0	975							

^{4:} Column d "Previously Approved RAM" is not used as the labor and non-labor escalation is accomplished through the use of a compounded escalation rate in column f, as shown in footnote 2.

HAWAIIAN ELECTRIC COMPANY, INC.

DECOUPLING CALCULATION WORKSHEET RATE ADJUSTMENT MECHANISM SUMMARY OF

OPERATIONS AND MAINTENANCE LABOR AND NON-LABOR EXPENSE

BY BLOCK OF ACCOUNTS

Final D&O - Docket No. 2010-0080

('000)

		Foot	note 1	Footnote 2				
		(a)	(b)	(c)=(a)+(b) TOTAL	(d)	(e)		
Line No.	DESCRIPTION	<u>BU LABOR</u>	NON-BU LABOR	<u>LABOR</u>	NON-LABOR	<u>TOTAL</u>		
1	Production	26,585	12,400	38,985	52,838	91,823		
2	Transmission	3,519	2,373	5,892	10,103	15,995		
3	Distribution	12,559	4,838	17,397	24,148	41,545		
4	Customer Accounts	6,136	2,357	8,492	6,119	14,611		
5	Allowance for Uncoll Accounts	-	-	-	1,463	1,463		
6	Customer Service	152	3,238	3,390	3,197	6,587		
7	Administrative & General	2,273	20,484	22,757	63,621	86,378		
8	Operation and Maintenance	51,224	45,690	96,913	161,489	258,402		
	Percentage of Total O&M Labor	52.86%	47.14%	100%				
	reicentage or rotal Collin Labor	32.0076	47,1470	100 /8				

^{*} amounts may not add due to rounding

1 See Letter dated October 4, 2011, Subject: Hawaiian Electric Supplemental and Revised Responses, filed in Docket No. 2010-0080, Attachment, page 1: Worksheet showing the breakdown of the 2011 test year labor expenses between BU and non-BU.

O&M breakdown above excludes fuel from original schedule. Refer to O&M recalculation below which includes fuel component.

		NOI	BU+NON BU		
	BU LABOR	MERIT	OTHER	TOTAL	TOTAL
FUEL	333	829	11	840	1,173
PRODUCTION	26,585	12,370	30	12,400	38,985
TRANSMISSION	3,519	2,373	-	2,373	5,892
DISTRIBUTION	12,559	4,838	-	4,838	17,397
CUSTOMER ACCOUNTS	6,136	2,357	•	2,357	8,493
CUSTOMER SERVICE	152	3,238	-	3,238	3,390
ADMIN & GENERAL	2,273	20,462	22	20,484	22,757
TOTAL	51,557	46,467	63	46,530	98,087
% of TOTAL BU/NON BU LABOR	52.56%			47.44%	100.00%
% of TOTAL BU/NON BU LABOR (excluding fuel)	52.86%			47.14%	100.00%

² See Letter dated December 14, 2012, Subject: Docket No. 2010-0080 - Hawaiian Electric 2011 Test Year Rate Case Hawaiian Electric Worksheet Showing Updated Labor/Non-Labor Expense Split for RAM Calculation, Attachment 1, pages 1-3.

Hawaiian Electric Company, Inc. DECOUPLING CALCULATION WORKBOOK Non-Labor Exclusion Adjustment for O&M RAM

(\$ thousands)

Line No.	Decription	Amount	Reference
	(a)	(b)	(c)
1 2 3	Pension Expense	31,617	See Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010-0080, HECO T-15 Attachment 1, page 1
4 5	OPEB Expense	(463)	See Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010-0080, HECO T-15 Attachment 1, page 1
6 7 8	Total before amounts transferred	31,154	
9 10 11 12	O&M % (1- transfer rate of 29.3%)	70.70%	See Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010-0080, HECO T-15 Attachment 1, page 1
13 14 15	Adjustment to Non-Labor O&M Expense for O&M RAM base	22,026	
17 18 19	Non-Labor O&M Expense per Interim D&O	161,489	Schedule C1
20 21	Non-Labor O&M Expense Base for O&M RAM base	139,463	

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - RETURN ON INVESTMENT

Line No.	Description (a) PUC APPROVED CAPITAL STRUCTURE & COSTS	AMOUNTS IN THOUSANDS (b) (Note (2)):	PERCENT OF TOTAL (c)	COST RATE (d)	POST TAX WEIGHTED EARNINGS REQMTS (e)	INCOME TAX FACTOR Note (1)	PRETAX WEIGHTED EARNINGS REQMTS (g)
2	Short-Term Debt	\$ 38,210	2.35%	1.75%	0.04%	1.000000	0.04%
3	Long-Term Debt	624,620	38.36%	5.86%	2.25%	1.000000	2.25%
4	Hybrid Securities	27,994	1.72%	7.36%	0.13%	1.000000	0,13%
5	Preferred Stock	20,806	1.28%	5.46%	0.07%	1.63693	0,11%
6	Common Equity	916,533	56.29%	10.00%	5.63%	1,63693	9.21%
7	Total Capitalization	\$ 1,628,163	100.00%		8.11%		11.74%
8	RAM CHANGE IN RATE BASE \$000 (From School	lule D1)					\$ 514,092
9	PRETAX RATE OF RETURN (Line 7, Col g)					•	11.74%
10	PRETAX RETURN REQUIREMENT						\$ 60,354.4
11	REVENUE TAX FACTOR (1/(1-8.885%))						1.0975
12	RATE BASE RAM - RETURN ON INVESTMENT \$000)					\$ 66,239.0 To Sch A1

Footnotes:

38.91% See HECO-WP-F-001 1.636929121

¹ Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate)

² See Decision and Order No. 30505, Page 127, filed June 29, 2012, in which the commission accepted the proposed capital structure set forth in the Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010-0080, Exhibit 1, Page 125 of 132.

MAWAJIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF PATE BASE RAM ADJUSTMENT - CHANGE IN RATE BASE \$ in thousands

		HECO 2011 Test Year Rate Base (Note 2)		HECO 2017 RAM Rata Base								
	'					_	Adjusted					
		Beg	, Balance	Bu	dgeted Balance		Recorded at	RAM	Projected	Esti	mated at	
Une No.	Description	12	/31/2010		12/31/2011	_	12/31/2016	Α	mounts	12/	31/2017	
	(a)		(b)		(c)		(d)		(e)		(1)	
							Note (1)		etail Balow			
1	Net Cost of Plant in Service	\$	1,608,932	\$	1,710,082	5			107,800	\$:	2,682,938	
2	Property Held for Future Use		4,090		4,090	_	0		0		. 0	Note (3)
3	Fuel Inventory		93,229		93,229	Г			s Elements			
4	Materials & Supplies Inventories		18,229		18,229	П			le Gase are		1	
5	Unamort Net SFAS 109 Reg Asset		62,723		64,246	П	Not U	pdaled	for RAM Pur	D436	•	
6	Unamort EOTP Reg Asset		523		2,136	L						
7	CIP CT-1 Reg Asset						2,306		(954)		1,352	HECO-WP-D1-001A, Page 1
8	CIS Def Cost						10,266		(1,220)		9,046	HECO-WP-D1-001B, Page 1
9												
10												
11						_						
12	Unament Sys Dev Costs		9,253		8,297				s Elements			
13	RO Pipeline Reg Asset		5,587		5,473	ı			te Base are		- 1	
14	Contrib in Excess of NPPC				19,411	L			for RAM Pur			
15	Total Additions	\$	1,802,566	5	1,925,193	\$	2,787,991	\$	105,626	5	2,893,617	
16	Unamortized CIAC	\$	(189,314)	\$	(206,279)	S	(347,826)	\$	(25,825)	\$	(373,651)	
17	Customer Advances		(1,879)		(1,855)	Г						
18	Customer Deposits		(10,245)		(13,554)	L			Updated			
19	Accumulated Def Income Taxes		(213,833)		(271,014)	Ξ	(524,166))	(36,295)		(560,461)	
20	Unamortized State ITC (Gross)		(32, 171)		(35,088)	Г						
21	Unamortized Gain on Sate		(800)		(516)	ı					- 1	
22	Pension Reg Llability		(3,996)		(2,522)	1		No	Updated		- 1	
23	OPEB Reg Liability		(6,376)		(8,749)	L						
24	Total Deductions	5	(458,614)	5	(539,577)	3	(930,868)	\$	(62,121)	\$	(992,988)	
25	Working Cash		21,047		21,047	Г	21,647	No	Updated		21,047	
						_			····			
26	Rate Base at Proposed Rates	5	1,364,999		1,406,663	\$	1,878,170			\$	1,921,676	
27	Average Rate Base			S	1,385,831					5	1,899,923	
28	Change in Rate Base								[\$	514,092	To Schedule D
29	Column (e) Projected Changes to Rate Base;				Reference		Amount \$000	_				
30	Plant - Baseline Capital Project Additions				edule D2		244,397					
31	Major Project Additions				edule D3		2,736					
32	Accumulated Depreciation/Amortization Chang	0			edule E	_	(139,333					
33	Net Plant			Sum	: Lines 30-32	_	107,800	-				
34	Accum. Deterred Income Taxes - Baseline and	Major Ca	pdal Projects	Sch	edule F	_	(36,295)				
35	Projected CIAC Additions - Baseline			Sch	edule G		(33,235	ı				
36	Projected CIAC Additions - Major CIP				edule G2		(900					
37	Less: Amortization of CIAC				edule G		8,309					
38	Total Change in CIAC in Rate Base				: Lines 35-37	_	(25.825					
						-		-				

Footnotes:

1	Amounts	are	recorded,	except	for the	following	adjustments:	

•	Palloulia are recorded, and prior the relief	Plant In Service			Acc, Depr,		CIAC Net	ADIT	
						Sch	redule G	Schedule D4	
[A] [A] [A]	Unadjusted Balance Add; Asset Retirement Obligation Reg Liab-Cost of Removal (net salvage)	\$	4,285,017	\$	(1,395,562) (25,108) (275,705)	5	(347,826)	S	(525,719)
[~]	Tenant Improvement Allowance (Sch E)		(13,362)		7,582				
	Major Project Adjustments:	KE	CO-WP-D2-001	н	CO-WP-E-001			HECO-WP-D4-80	12
	Walau 8 Boiler Ctls Upgrade		(1,075)		106				225
	Waiau 8 Main Transformer Replace		(243)		31				49
	Kahuku Wind Power		(7)		7				
	W7 Controls Upgrade		(424)		28				86
	Kakaako Makal-Iwilai		(4,016)		528				682
	Kakaako Makal-Kewalo		(1,410)		117				248
	Kakaako Makai-DOT Queen-Cook		(1,278)		97				226
	BPT Tank 133 Improvements		(193)		4				37
	Total Adjustments	-\$	(8,644)	\$	918	5	-	5	1,553
	Adjusted Balance	<u>\$</u>	4,263,011	\$	(1,687,875)	\$	(347,826)	Schedule D4 S	(524,166)

- See Hawaiian Electric Company, Inc. Decision and Order No. 30505, EXHIBIT B, Page 1 of 2,
 For Approval of Rate Increases and Revised Rate Schedules and Rules, filed June 29, 2012, in Docket No. 2010-0080.
- 3 In Transmittal No. 13-03 (Decoupting, Hawaiian Electric's RBA Rate Adjustment Tariff Filing, Hawaiian Electric's Response to the Division of Consumer Advocacy's Statement of Position and Revised RBA Rate Adjustment), Schedule D1, filed on May 14, 2013, those amounts were not updated for RAM purposes. However, in 2012 and 2013, the entire balance of Property Held for Future Use (PHFFU) was transferred to Plant in Service, resulting in a zero balance in PHFFU. Leaving these amounts unchanged from the balance at 12/31/11 would result in an overstatement of rate base by \$4,090.

Balance PHFFU at 12/31/11	\$ 4,090	
Less transfers to Plant in Service:		
CIP 1 Unit Addition - Land	(1,810)	Schedule D2; Amount transferred in 2013
Kaloi Substation Land	(2,276)	Schedule D2; Amount transferred in 2013
Kapolei Substation	(4)	Amount transferred in 2012
Batance PHFFU at 12/31/13	\$ 	[A]

HAWAJIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK **DETERMINATION OF BASELINE CAPITAL PROJECTS ADDITIONS**

Source: Docket No. 03-0257 General Order No. 7 Plant Additions Annual Reports filed with the PUC dated;

				3/22/2013	3/28/2014	3/27/2015	3/29/2016	NOTE (1)
Line No.	Description	on		2012	2013	2014	2015	2016
	(a)			(b)	(c)	(d)	(e)	(f)
1 2	Total Plant Additions Less: Non-Utility Plant Additions		NOTE (3)	255,978,908	272,820,344	269,326,250	266,537,660 (63)	241,294,569 (3,954)
3	Adjusted Total Plant Additions			255,978,908	272,820,344	269,326,250	266,537,597	241,290,615
5	Less Major Projects: (+\$2.5 Million)	Dkt No.	Item No.					
7	2008 In-service:							
8 9	CIP Generating Unit	05-0145	Y49000		(1,809,875)			
10	2010 In-Service:							
11	Kamoku 46kv UG Alt Ph 1 (EOTP)	03-0417	Y48500	(69)				
12	K3 Biofuel Co-Firing	2009-0155	P0001577		(4,608)			
13 14	Kahuku Wind Power - NOTE (2)	2009-0176		NA	NA	NA	NA	NA
15	2011 In-Service:							
16	W8 Boiler Controls Upgrade	2007-0365	P7650000	(118,460)	(45,384)	18,503	(70)	
17	EOTP Ph. 2 (Subs/Switch Stations)	2010-0062	Y48500	(6,607,578)	(184,448)	(7,357)	(55,681)	(682)
18	W7 Controls Upgrade	2009-0195	P7590000	(119,081)	(308,336)	(8,237)	(35)	
19 20	W8 Main Transformer Replace		P0001399	(19,800)	47,320			
21	2012 In-Service:				(- 858)			
22	K1 Condenser Tube Replace	2010-0126	P0000681	(4,910,700)	(1,850)			
23	BPT Tank 132 Improvements	2010-0286	P0000899	(5,513,984)	(547)			
24 25	Mobile Radio Replacement Kapolei Substation	2010-0162 2011-0026	P0001595 Y00127	(2,502,181)	(61,573)	(6.450)		
26 26	Rapolei auustallori	2011-0026	100127	(6,217,064)	(780,700)	(6,459)		
27	2013 In-Service							
28	Pukete 80MVA Tsf #3	2011-0156	P0001494		(4,299,560)	(28,327)	15,611	
29	Kakaako Makai-Iwilei 25kV DL	2009-0042	Y00038		(6,661,331)	(485,650)	(496,818)	
30	Katoi Substation - Land	2008-0070	Y00119		(2,276,439)	·,,	(,,	
31 32	North South Road 46kV Line	2008-0070	Y00119		(2,099,046)		(3,488)	
33	2014 In-Service:							
34	Kaloi Substation	2008-0070	Y00119			(6,548,755)	(925)	
35	Kaloi Sub 46kV & 12kV Distr	2008-0070	Y00119			(1,218,895)		
36	Kaloi Telecomm	2008-0070	Y00119			(171,237)		
37	Kaloi Sub 12kV Work	2008-0070	Y00119			(25,906)		
38	Kakaako Makai-Kewalo 25kV DL	2009-0042	Y00038			(4,958,840)	(464,900)	(111)
39	Kakaako Makai DOT Queen-Cook	2009-0042	Y00038			(1,961,600)	(418,816)	(2,890,742)
40 41	BPT Tank 133 improvements Pukele 80MVA Tsf #2	2010-0318 2011-0156	P0000900 P0001492			(6,095,787)	(1,092,308) (40,084)	
42	DOT Airport DSG	2008-0329	P0001492			(3,449,859) (4,965,396)	(97,130)	(172,652)
43	·	2000-0329	P0001370			(4,503,350)	(87,130)	(172,032)
44	2016 In-Service:							
45 46	Pukele 80MVA Tsf #1	2011-0156	P0002264					(3,839,121)
47	Total Net Plant Additions (excluding	major projects)		229,969,991	254,333,967	239,412,448	263,882,953	234,387,307
48 49	Last Five-Year Average							244,397,333 Yo Sch D1

Amounts per HECO-WP-D2-002 and the Hawaiian Electric Companies' Exemption From and Modification of General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2016, in Docket No. 03-0257, filed on March 30, 2017.

In Hawaiian Electric Transmittal No. 11-02, Attachment 4.1, page 3 (Revised 5/10/11), filed May 10, 2011, the Company reflected the removal of the Kahuku Wind Power project, due to approval for recovery through the REIP surcharge (Decision and Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, Docket case (Docket No. 2010-0080), the Company did not seek to recover these costs through the REIP surcharge (see the Renewable Energy Infrastructure Program ("REIP") - Annual Report, p.2, footnote 3, filed in Docket No. 2007-0416, dated January 31, 2012). The recorded cost of this project is \$2,132,812 as shown on HECO-WP-E-001. No. 2009-0176, filed on May 12, 2010). However, because these costs were included as part of the 2010 and 2011 plant additions in Hawaiian Electric's 2011 rate

NOTE (3); Source: UI Planner Budget files: Actuals Scenario. Adjustment to remove non-utility plant additions from utility plant. Chapin UG Duct Line is a non-utility asset. It is a contributed asset that was given to the Company. It is not being used and there are currently no plans to use it.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF MAJOR CAPITAL PROJECT ADDITIONS

Line No.	Description (a)	PUC Docket Reference (b)	Estimated In Service Date (c)	Amount (d)
1 2	ERP EAM Hardware	Oocket No. 2014-0170 (D&O dated 8/11/2016) UI Planner Budget files	Aug-17	2,590,000
3 4	DOT Airport DSG 2017 Straggling costs	Docket No. 2008-0329 (D&O dated 6/25/2009) UI Planner Budget files	Aug-14	138,537
5 6	Pukele 80MVA Tsf#1 2017 Straggling costs	Docket No. 2011-0156 (D&O dated 10/12/2012) UI Planner Budget files	Feb-16	7,418
7	Total Major Capital Projects Qualifying for 2	·		\$ 2,735,955 To Sch D1

See Schedule G2 for related CIAC (if applicable)

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF ADJUSTED RECORDED DEFERRED INCOME TAXES

			DR/(CR)	DR/(CR)		DR/(CR) Total	
Line No.	NARUC Account	Reference	Federal ADIT	State ADIT		ADIT	
	(a)	(b)	(c)	(d)		(e)	
1	Recorded Deferred Income Tax Balances December 31, 2016 Recorded Balances						
2	Depreciation Related Account 282	HECO-WP-D4-001	(265,398,344)	(12,289,638)		(277,687,982)	
3	Other Deferred Income Taxes	HECO-WP-D4-001	(206,861,720)	(41,169,654)		(248,031,374)	
4	Total Recorded Deferred Income Taxes		(472,260,064)	(53,459,292)		(525,719,356)	To Sch D1
5	Adjustments to Recorded Balances:						
6	ADIT on Major Project excess depreciation	HECO-WP-D4-002	1,496,531	56,509		1,553,040	
7	Total Adjustments to Recorded ADIT Balances		1,496,531	56,509	_	1,553,040	To Sch D1
8	Adjusted Recorded ADIT Balances -12/31/16		(470,763,533)	(53,402,783)	\$	(524,166,316)	To Sch D1

HAWAIIAN ELECTRIC COMPANY, INC. <u>DECOUPLING CALCULATION WORKBOOK</u> <u>DETERMINATION OF DEPRECIATION & AMORTIZATION RAM ADJUSTMENT</u>

Line No.	NARUC Account	Recorded Depreciable/Amort. Balance (Footnote 3)	Adjustments (Footnote 1)	Adjusted Depreciable/Amort. Balance	PUC Approved Accrual Rate	Annual Accrual
Lite 140.	(8)	(b)	(c)	(d)	(e)	(f)
	(4)	(4)	(0)	(4)	(0)	(7)
1	Depreciable Plant					
2	311	95,674,371		95,674,371	0.01600	1,530,790
3	312	389,036,938	(1,691,184)	387,345,754	0.02030	7,863,119
4	314	188,528,015		188,528,015	0.01540	2,903,331
5	315	80,344,594	(243,014)	80,101,580	0.02430	1,946,468
6	Tot - Steam	753,583,918	(1,934,198)	751,649,720	0.01890	14,243,709
7						
8	341	38,209,235		38,209,235	0.00770	294,211
9	342	16,469,414		16,469,414	0.02580	424,911
10	343	67,718,691		67,718,691	0.03260	2,207,629
11	344	32,206,280		32,206,280	0.01010	325,283
12	345	33,795,588		33,795,588	0.02510	848,269
13	Tot - Gas Turb	188,399,208	•	188,399,208	0.02176	4,100,304
14						
15	Tot - Prod	941,983,126	(1,934,198)	940,048,928		18,344,013
16						
17	3501	2,972,364		2,972,364	•	•
18	352	60,034,234		60,034,234	0.01600	960,548
19	353	304,705,866		304,705,866	0.01860	5,667,529
20	354	15,386,451		15,386,451	0.01480	227,719
21	355	320,981,061		320,981,061	0.03240	10,399,786
22	356	163,891,186		163,891,186	0,03270	5,359,242
23	357	61,305,275		61,305,275	0.01590	974,754
24	358	63,756,758		63,756,758	0.01730	1,102,992
25	359	3,235,054		3,235,054	0.01490	48,202
26	Tot - Transm	996,268,249	•	996,268,249	0.02483	24,740,773
27						
28	3601	1,797,826		1,797,826	0.02340	42,069
29	361	22,410,914		22,410,914	0.01080	242,038
30	362	250,609,486		250,609,486	0.02020	5,062,312
31	364	212,058,452	(22,671)	212,035,781	0.03390	7,188,013
32	365	120,286,808	(16,406)	120,270,402	0.04190	5,039,330
33	366	308,681,580	(792,137)	307,889,443	0.02190	6,742,779
34	367	441,272,299	(5,558,788)	435,713,511	0.04980	21,698,533
35	368	232,460,989	(312,563)	232,148,426	0.05200	12,071,718
36	369.1	60,768,852		60,768,852	0.05250	3,190,365
37	369.2	20 3,4 5 2,719		203,452,719	0.04070	8,280,526
38	370	37,855,928		37,855,928	0.02660	1,006,968
39	Tot - Distr	1,891,655,853	(6,702,565)	1,884,953,288	0.03730	70,564,649
40						
41	Tot - T & D	2,887,924,102	(6,702,565)	2,881,221,537		95,305,422
42						
43	390	66,268,613		66,268,613	0.02450	1,623,581
44	Tot - General	66,268,613	•	66,268,613	0.02450	1,623,581
45						
46	Sub-Total	3,896,175,841	(8,636,763)	3,887,539,078		115,273,015
47						
48	3902 (King)	7,828,867		7,828,867	0.02316	181,308
49	3902 (CPP)	2,139,703		2,139,703	0.03295	70,511
50	3902 (Waterhouse)	1,517,450		1,517,450		
51	3902 (Hon CI)	525,251		525,251	0.31169	163,716
52	3902 (ASB)	1,463,127		1,463,127	0.10904	159,534
53	3902 (Shinco)	939,475		939,475		
54	3902 (PPP)	372,940		372,940	0.11111	41,438
55	3902 (Tenant Allowance)	13,361,548	(13,361,548)		-	
56	Tot- LH Impr	28,148,361	(13,361,548)	14,786,813		616,506
57						
58	392	58,571,486		58,571,486	0.06130	3,590,432
59	Miller Total December :	0.000,000,000	(61 606 61			
60	Utility Total Depreciation	3,982,695,688	(21,998,311)	3,960,897,377	0,03000	119,479,954

Line No.	NARUC Account	Recorded Depreciable/Amort, Balance (Footnote 3)	Adjustments (Footnote 1)	Adjusted Depreciable/Amort. Balance	PUC Approved Accrual Rate	Annual Accrual
	(a)	(b)	(c)	(d)	(e)	(f)
61	Amortizable Plant	\- /	ν-,	1-2	1-7	.,,
62	316	23,798,809		23,798,809	0.05000	1,189,940
63	Tot - Steam	23,798,809	· · · · · · · · · · · · · · · · · · ·	23,798,809	0,05000	1,189,940
64						
65	346	18,832,072		18,832,072	0.05000	941,604
66	Tot - Gas Turb	18,832,072	•	18,832,072	0.05000	941,604
67						
68	Tot - Prod	42,630,881	•	42,630,881	0.05000	2,131,544
69						
70	3911	31,451,416		31,451,418	0,20000	6,290,283
71	3912	2,753,147		2,753,147	0.10000	275,315
72	3913	15,702,865		15,702,865	0.06670	1,047,381
73	393	1,393,909		1,393,909	0,04000	55,756
74	394	33,747,176		33,747,176	0.04000	1,349,887
75	395	680,466		680,466	0,06670	45,387
76	396	14,997		14,997	0.05560	834
77	397	121,345,888	(7,161)	121,338,727	0,06670	8,093,293
78	398	8,443,688		8,443,688	0.06670	563,194
79	Tot - General	215,533,552	(7,161)	215,526,391	0.08222	17,721,330
80						
81		•				
82	_					
83	Utility Total Amortization	258,164,433	(7,161)	258,157,272	0.07690	\$ 19,852,874
84	_					
85	TOTAL RAM DEPRECIATION / AMORTIZATIO	N		I	_ine 60 + Line 83	\$ 139,332,828
86	LESS: Vehide Depreciation (A/C 392 above)				Line 58	\$ (3,590,432)
87	LESS: Depreciation & Amortization in Current R	levenues			Footnote 2	\$ (94,237,000)
88						
89	RAM Adjustment for Depreciation & Amortization	n.				\$ 41,505,396
90	RAM Adjustment for CIAC Amortization			Sc	hedule G Line 15	\$ (522,481)
91	RAM Adjustment for CIP CT-1 Reg Asset Amor	tization		HE	CO-WP-D1-001A	954,000
92	RAM Adjustment for CIS Def Cost Amortization			HE	CO-WP-D1-001B	1,220,000
93	Total RAM Adjustment for Depreciation & Amor	tization				\$ 43,156,915
94 95	Times: Factor for Revenue Taxes			S	chedule C Line 5	1.09750
96	RAM DEPRECIATION & AMORTIZATION					\$ 47,364,714
						To Sch A1

Footnotes:

See HECO-WP-D2-001): From D1		Amounts are recorded (in \$000s), except for the following adjustments	Pla	nt in Service
Waiau 8 Main Transformer Replace (243) Kahuku Wind Power (7) W7 Controls Upgrade (424) Kakaako Makai-Iwilei (4,016) Kakaako Makai-Kewalo (1,410) Kakaako Makai-DOT Queen-Cook (1,276) BPT Tank 133 Improvements (193) Tenant Improvement Allowance (see Footnote 4) (13,362) Total \$ (22,006) 2 Depreciation & Amortization in Current Revenues*: Depr/Amort Expense Total Depreciation \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000	1	(see HECO-WP-D2-001):		From D1
Kahuku Wind Power (7) W7 Controls Upgrade (424) Kakaako Makai-Iwilei (4,016) Kakaako Makai-Kewalo (1,410) Kakaako Makai-DOT Queen-Cook (1,276) BPT Tank 133 Improvements (193) Tenant Improvement Allowance (see Footnote 4) (13,362) Total \$ (22,006) 2 Depreciation & Amortization in Current Revenues*: Depr/Amort Expense Total Depreciation \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000		Waiau 8 Boiler Ctls Upgrade	\$	(1,075)
W7 Controls Upgrade (424) Kakaako Makai-Iwilei (4,016) Kakaako Makai-Wilei (4,016) Kakaako Makai-Word (1,410) Kakaako Makai-DOT Queen-Cook (10,276) BPT Tank 133 improvements (193) Tenant Improvement Allowance (see Footnote 4) (13,362) Total \$ (22,006) 2 Depreciation & Amortization in Current Revenues*: Depr/Amort Expense Total Depreciation \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (803,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000		Waiau 8 Main Transformer Replace		(243)
Kakaako Makai-Iwilei (4,016) Kakaako Makai-Iwilei (4,016) Kakaako Makai-Wardo (1,410) Kakaako Makai-DOT Queen-Cook (1,276) BPT Tank 133 improvements (193) Tenant Improvement Allowance (see Footnote 4) (13,362) Total \$ (22,006) 2 Depreciation & Amortization in Current Revenues*: Depri/Amort Expense Total Depreciation \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000		Kahuku Wind Power		(7)
Kakaako Makai-Kewalo (1,410) Kakaako Makai-DOT Queen-Cook (1,276) BPT Tank 133 Improvements (193) Tenant Improvement Allowance (see Footnote 4) (13,362) Total \$ (22,006) 2 Depreciation & Amortization in Current Revenues*: Depr/Amort Expense Total Depreciation \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000		W7 Controls Upgrade		(424)
Kakaako Makai-DOT Queen-Cook (1,276) BPT Tank 133 Improvements (193) Tenant Improvement Allowance (see Footnote 4) (13,362) Total \$ (22,006) 2 Depreciation & Amortization in Current Revenues*: Depr/Amort Expense Total Depreciation \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000		Kakaako Makai-Iwilei		(4,016)
### RPT Tank 133 improvements (193) Tenant Improvement Allowance (see Footnote 4) (13,362) Total (13,362) (Kakaako Makai-Kewalo		(1,410)
Tenant Improvement Allowance (see Footnote 4) (13,362) Total \$ (22,006) 2 Depreciation & Amortization in Current Revenues*: Deprication Total Depreciation \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation 1,171,000 ADD: Revised EOTP excess depreciation** 1,006,000		Kakaako Makai-DOT Queen-Cook		(1,276)
Total \$ (22,006) 2 Depreciation & Amortization in Current Revenues*: Total Depreciation Depr/Amort Expense \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000		BPT Tank 133 improvements		(193)
2 Depreciation & Amortization in Current Revenues*: Total Depreciation Depri/Amort Expense \$ 97.297,000 LESS: Vehicle Depreciation (A/C 392) (2.292.000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000		Tenant Improvement Allowance (see Footnote 4)		(13,362)
Total Depreciation \$ 97,297,000 LESS: Vehicle Depreciation (A/C 392) (2,292,000) LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation 1,006,000		Total	\$	(22,006)
LESS: Vehicle Depreciation (A/C 392) (2.292.000) LESS: CIP CT-1 excess depreciation (603.000) LESS: EOTP excess depreciation (1,171.000) ADD: Revised EOTP excess depreciation (1,006.000)	2	Depreciation & Amortization in Current Revenues*:	Depr//	Amort Expense
LESS: CIP CT-1 excess depreciation (603,000) LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation (1,006,000)		Total Depreciation	S	97,297,000
LESS: EOTP excess depreciation (1,171,000) ADD: Revised EOTP excess depreciation ** 1,006,000		LESS: Vehicle Depreciation (A/C 392)		(2,292,000)
ADD: Revised EOTP excess depreciation **1,006,000		LESS: CIP CT-1 excess depreciation		(603,000)
		LESS: EOTP excess depreciation		(1,171,000)
		ADD: Revised EOTP excess depreciation **		1,006,000
Net Depreciation in Current Revenues \$ 94,237,000		Net Depreciation in Current Revenues	\$	94,237,000

*Amounts are per page 90 of Exhibit 1 to the Parties' Stipulated Settlement Letter dated July 5, 2011 in HECO's 2011 test year rate case (Docket No. 2010-0080).

**Amount is per page 1 of Exhibit 2. Attachment 3 to the Stipulated Supplement to the Parties' July 5, 2011 Stipulated Settlement Letter with respect to East Oahu Transmission Project Phase 1 Costs, dated February 3, 2012. Depreciation added in EOTP interim was based on 2010 plant adds and the 2010 actual depreciation rates (blended rate in 2010). The 2012 depreciation is based on additional plant adds made in 2011 included in the February 3, 2012 stipulation supplement, offset by the write-down of \$9.5M of costs and the lower depreciation rates in 2012 (full year of the lower depreciation rates).

- 3 Per Accounting records, does not include land amounting to \$43,956,434 as of December 31, 2016.
- 4 Amount represents tenant improvement allowances paid by the lessors and excluded from the RAM calculation.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF CHANGE IN DEFERRED INCOME TAXES

Line No.	NARUC Account	Reference	Projected ADIT Change
	(a)	(b)	(c)
1	State Tax Depreciation	Schedule F1	9,712,864
2	Effective Federal Tax Rate	HECO-WP-F-001	32.8947%
3	Federal Deferred Tax on State Tax Depreciation		3,195,021
4 5 6	Add back State Tax Depreciation Federal Tax Depreciation Federal/State Difference	Line 1 Schedule F1	(9,712,864) 102,615,920 92,903,056
7	Tax Rate on Federal Only Adjustment	HECO-WP-F-001	35%
8	Federal Deferred Tax Adjustment		32,516,070
9	Total Federal Deferred Taxes		35,711,091
	STATE DEFERRED TAXES		
10	State Tax Depreciation	Line 1	9,712,864
11	Effective State Tax Rate	HECO-WP-F-001	6.0150%
12	Total State Deferred Taxes		584,232
13	TOTAL FED AND STATE DEFERRED TAXES		36,295,323 To Sch D1

NOTE: In accordance with the tariff, the change in ADIT in the RAM year is based on the temporary book/tax depreciation differences associated with the RAM year plant additions (major capital projects and baseline plant additions). It does not include any estimated ADIT related to the repairs deduction or CIAC on RAM year plant additions.

HAWAIIAN ELECTRIC COMPANY JNC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TAX DEPRECIATION

																			CTATE	21710	TAX DEPR				1,176,923	711,449	756,559	9,505,069					•	•	Ī	•		Dr.C'ar		2	9,187,566	525,298 9,712,864	St. Far Depreciation to Schedule F		
																			24040	2 Y Y	DEPR RATE				20.00%	14,29%	5.00%	8.10X						20 00%	14.29%	5.00%	3.75%	£		ļ	•	•		ach year,	
																			ć		œ	ı			3,530,770	2,845,050	18,443,865	76,126,063							•	٠		0 * C'85			100,985,294	1,630,626	Fed Fax Depreciation to Schedule F	Schedule D2 < <supported by="" each="" special="" study="" td="" year.<=""><td></td></supported>	
																			ç	3.5	DEPR RATE				60.000%	57.145%	52.500%	Mc/8,1c						20.00%	14.29%	\$ 00%	3,75%	£ 311.4		1	•	 	I S	Schedule D2 < <supponted by<="" td=""><td></td></supponted>	
																					BASIS	:			5,884,617	4,978,651	35,131,171	146 749 036						•	•	•		308,808,6			196,103,376	2,735,955		244,396,000 40,890,014 203,505,986 7,402,810	198,103,378
																						•	Vintage 2017 - 50% Bonus Depreciation		5 yr	7 yr	15 yr	20 yr				Viotage 2017 - Regular Depreciation		Š	. K	15 yr	20 yr	38 yr		'	'			Reconcitation from Basetine Plant Adds to Net Depreciable Plant Adds; : Basetine Capital Projects Plant Adds (rounded) Less: Repairs deduction Net plant add basis Less: Land and Vehicles (3.64% x 203.505,988)	•
	TOTAL	(6)	2.89%	1,67%	2.45%	46.24%	7860	12 18%	1.65%	10,02%	16.28%	3.05%	100 00%		2.89%	2.45%	17.26%	72 15%	1.85%	4,000	100 001		intage 2017 - 50		2.89%	2,45%	17.26%	72.11%			94.71%	intage 2017 - Re	(Snuce)	30000	9.00.0	0.00%	%00°0	1,65%	96.36W		-8	ate F2		rom Basetine Plant Adds to Net Depreciable Plant Basetine Capital Projects Plant Adds (rounded) Less; Realis deduction HECO-WP-Ft-to-Wot plant add basis Less; Land and Vehicles (3.64% x 203.505,988)	
	PROGRAMS	€	2.42%	0.93%	1.27%	\$09.60 \$00.00	#60°0	1.43%	0.20%	4.45%	3.40%	3.05%	57 08%		2.42%	1.27%	3.40%	46.66%	0.20%	0.05%	57.06%			100.00%	2.42%	1.27%	3,40%	46.66%			53.76%	>	is subject to 50%	***************************************	*000	0.00%	%00.0	0.20%	53.96%		aseline Plant Ad	ects from Sched Plant Adds		om Baseline Ptant / Baseline Capital Pn Less: Repairs dedu Net plant add basis Less: Land and Ve	
	PROJECTS P	(e)	0.47%	0,74%	\$4.	# A A A A	0.35%	10.75%	1.45%	5.57%	12.88%	0.00%	20.00		0.47%	1.17%	13,85%	25,45%	1.45%	0,53%	42 94%			100.00%	0.47%	1,17%	13.86%	25,45%			40.95%		(Total less amounts subject to 50% bonus)	0.00%	%00°0	%00°0	0.00%	1.45%	42.41%		Net Depreciable Basetine Plant Adds	Major Capital Projects from Schedute F2 Total Depreciable Plant Adds		Reconciliation for Ba	
	TOTAL	(g)	7,067	4,073	5,979	117.895	0.450	20 775	4 035	24.492	39 786	7,455	244 708		5 yr	, X	15 yr	:0 yr	19 yr	Land	Vehicles	•		eciation	,	7 yr	¥ 52 5	20 yr	sayr Land	Vehicles	Fotal		tion	3		15 yr	20 yr	39.46	- STASSELATOT						
00 13 ON 00	PROGRAMS	Θ	5,917	2,267	9 10	97,391	2	150	487	10.883	8.313	7,455	130.452	70.7	**		_							50% bonus depr		•-	- '				_		regular deprecia	•	,,-	•		,	TOT						
ů.	PROJECTS P	(a)	1,150	1,806	2.871	20,504	000	275 85	3.548	13.609	31.473		104 044	2200										Basis subject to 50% bonus depreciation									Basis subject to regular depreciation												
-	#	(e)	ď	2	~	20	. 4	2 5	3 8	2 5	2 2	٠,	•	•										1									•												
		•	Computers/PV				Land New Coops Ornelington						TOTAL											NOTE (1)																					
	Line No.		-	CV	c	₹ 1	v d	۰ د	- 0	æ	. 5	? =	5	2																															

NOTE (1) The Protecting Americans from Tax Hikes (PATH) Act of 2015 extended bonus depreciation for property acquired and placed in service from 2015 through 2019. The bonus depreciation percentage is 50 percent for property placed in service during 2017.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK TAX DEPRECIATION ON MAJOR CAPITAL PROJECTS ADDITIONS

Line No.	Description		PUC Docket	Estimated In Service Date	Amount	_
	(a)	(b)	(c)	(d)	(e)	
1	Assumed Value of 2017 Major Capital Projects Plant Ite				\$ 2,735,955	Schedule D3
2	Assumed Value of 2017 Major Capital Projects - CIAC	nontaxable		_		Schedule G2 *
3	Assumed Value of 2017 Major Capital Projects - Total			=	\$ 2,735,955	=
			FED YR 1	FED YR 1	STATE YR 1	STATE YR 1
4	Tax Classification of Major Capital Project Additions	Tax Basis Distribution	DEPR RATE	TAX DEPR	DEPR RATE	TAX DEPR
5	5 yr	2,590,000	60.000%	1,554,000	20.00%	518,000
6	7 yr	-	57.145%		14.29%	· -
7	15 yr	145,955	52.500%	76,626	5.00%	7,298
8	20 yr		51.875%	-	3.75%	
9	39 yr	0				
10	Land	a				
11	Vehicles	<u>e</u>				
	Total	\$ 2,735,955 To Sch F1		\$ 1,630,626 To Sch F1		\$ 525,298 To Sch F1

^{*} Adjustment only for non-taxable CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK CIAC SUMMARY

Line No.	Description	Reference	Unamortized CIAC	CIAC Amortization
	(a)	(b)	(c)	(d)
1 2	12/31/16 Beginning Balance	Schedule G1	\$ (347,826,078)	
3	2017 CIAC Additions:			
4	Baseline 5-Yr Average	Schedule G1	(33,234,662)	
5	Major Projects	Schedule G2	(900,000)	
6	Net Additions		(34,134,662)	
7				
8	2017 CIAC Amortization:			
9	Estimated Amortization	Schedule G3	8,309,481	\$ (8,309,481)
10				
11	12/31/17 Ending Balance		\$ (373,651,259)	(8,309,481)
12			To Sch D1 Line 16	
13	LESS: CIAC Amortization in Current Revenues - NOTE (1)			(7,787,000)
14			•	
15	RAM Adjustment for CIAC Amortization			\$ (522,481)
			•	To Sch E Line 90

Note (1) - Per page 90 of Exhibit 1 to the Parties' Stipulated Settlement Letter dated July 5, 2011 in HECO's 2011 test year rate case (Docket No. 2010-0080).

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK BASELINE CAPITAL PROJECTS CIAC ADDITIONS

Source of CIAC balance and amort.: December Monthly Reports filed (non-confidential basis) with the PUC dated:

No. Description (a) (b) (c) (d) (e) (f) (e) (f) (e) (f) (f					2/19/2013	2/21/2014	2/26/2015	2/23/2016	2/24/2017
CIAC Balance, January 1 (Dec Rpt. pg. 10)	Line	Danadation			2012	2012	2014	2015	2016
CIAC Balance, January 1 (Dec Rpt, pg. 10) C204.795.271 C238,510,104 C258,084 169) C285,084 169) C2	140.								
Less: Nan-Luliny CIAC Society Company		CIAC Balance, January 1 (Dec Rpt. pg. 10)			(204,795,271)	(238,510,104)	(258,084,169)	(283,739,660)	(319,727,698) 7,597,437
East Adjusted CIAC Balance, December 31 238,510,104 258,084,169 283,739,660 319,109,234 347,826 To S	-			NOTE (3)	238,510,104	258,084,169	283,739,660		348,444,542 (618,464)
Total Adjusted CIAC Additions (Sum Line 1, 2 & 5) 38,610,673 25,226,977 31,803,050 42,140,722 35,865, 7	5			(-,	238,510,104	258,084,169	283,739,660		347,826,078
B		Total Adjusted CIAC Additions	(Sum Line 1, 2	8 5)	38,610,673	25,226,977	31,803,050	42,140,722	To Sch G 35,695,817
CIP Generating Unit O5-0145 Y49000	8	Less Major Projects:	<u>Dkt No.</u>	Item No.					
13 2010 In-service; 18 2010 18 2010 19 2010 19 2010 19 2010 19 2010 19 2010 19 2010 19 2010 19 2010 19 2010 201	11		05-0145	Y49000					
15 K3 Biofuel Co-Firing 2009-0155 2009-0176 NA	13		02 0417	V48500					
17	15	K3 Biofuel Co-Firing	2009-0155		NA	NA	NA	NA	NA
20 EOTP Ph. 2 (Subs/Swifich Stations) 2010-0062	17								
21 W7 Controls Upgrade 2009-0195 P7590000 20 W8 Main Transformer Replace P0001399 23 2012 In-Service: 25 K1 Condenser Tube Replace 2010-0126 P0000881 26 BPT Tank 132 Improvements 2010-0268 P0000899 27 Mobile Radio Replacement 2010-0126 P0000595 28 Kapolei Substation 2011-0026 Y00127 29 20 2013 In-Service: 30 2013 In-Service: 31 Pukele 80MVA Tsf #3 2011-0156 P0001494 32 Kakaako Makai-Invillei 25kV DL 2009-0042 Y00038 33 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 34 North South Read 46kV Line 2008-0070 Y00119 35 2014 In-Service: 37 Kaloi Substation 2008-0070 Y00119 38 Kaloi Substation 2008-0070 Y00119 39 Kaloi Substation 2008-0070 Y00119 39 Kaloi Sub 46kV & 12kV Distr 2008-0070 Y00119 39 Kaloi Sub 12kV Work 2008-0070 Y00119 40 Kaloi Sub 12kV Work 2008-0070 Y00119 41 Kakaako Makai-Kevalo 25kV DL 2009-0042 Y00038 42 Kakaako Makai-Hevalo 25kV DL 2009-0042 Y00038 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 50 Total Net ClAC Additlons 51 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P000264 50 Total Net ClAC Additlons 51 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P000264 50 Total Net ClAC Additlons 51 2016 In-Service: 52 Last Five-Year Average					(0.453.000)	(07.00.4)	440 705	445 0000	(340)
22 W8 Main Transformer Replace P0001399 23 2012 In- Service; 25 K1 Condenser Tube Replace 2010-0126 P0000681 26 BPT Tank 132 Improvements 2010-0268 P00006899 27 Mobile Radio Replacement 2010-0162 P0001595 28 Kapolei Substation 2011-0026 Y00127 29 30 2013 In- Service; 31 Pukele 80MVA Tsf #3 2011-0156 P0001494 32 Kakaako Makai-Nellei 25kV DL 2009-0007 Y00119 (2.173,999) 33 Kaloi Substation 2008-0070 Y00119 (2.173,999) 34 North South Road 46kV Line 2008-0070 Y00119 35 Kaloi Substation 2008-0070 Y00119 36 Kaloi Substation 2008-0070 Y00119 (2.173,999) 37 Kaloi Substation 2008-0070 Y00119 (2.173,999) 38 Kaloi Substation 2008-0070 Y00119 (2.173,999) 39 Kaloi Substation 2008-0070 Y00119 (2.173,999) 41 Kakaako Makai-Kewala 25kV DL 2009-0072 Y00119 42 Kakaako Makai-Kewala 25kV DL 2009-0072 Y00119 43 Kakaako Makai-Kewala 25kV DL 2009-0072 Y00119 44 Kakaako Makai-Kewala 25kV DL 2009-0072 Y00038 (2.825 43 BPT Tank 133 Improvements 2010-0318 P0000900 P000197 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 55 DOT Aipport DSG 2008-0329 P0001370 56 P0001492 57 Total Net CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,870					(2,157,239)	(87,994)	(43,725)	(15,232)	(718)
2012 In-Service: 2010-0126 P0000681 P0000681 P0000681 P0000689	22		2009-0193						
25 K1 Condenser Tube Replace 2010-0126 P0000899 26 BPT Tank 132 Improvements 2010-0286 P0000899 27 Mobile Radio Replacement 2010-0162 P0001595 28 Kapolei Substation 2011-0026 Y00127 29 30 2013 In-Service: 31 Pukele 80MVA Tsf #3 2011-0156 P0001494 31 Radioi Substation - Land - NOTE (2) 2008-0070 Y00119 (2,173,999) 32 Kakaako Makai-lwikel 25kV DL 2008-0070 Y00119 (2,173,999) 33 Kalioi Substation - Land - NOTE (2) 2008-0070 Y00119 34 North South Road 46kV Line 2008-0070 Y00119 35		2012 in Service:							
26 BPT Tank 132 Improvements 2010-0286 P0000899 27 Mobile Radio Replacement 2010-0162 P0001595 28 Kapolei Substation 2011-0026 Y00127 29 30 2013 In-Service: 31 Pukele 80MVA Tsf #3 2011-0156 P0001494 32 Kakaako Makai-Milei 25kV DL 2009-0042 Y00038 33 Katoi Substation Land - NOTE (2) 2008-0070 Y00119 (2,173,999) 34 North South Road 46kV Line 2008-0070 Y00119 35 36 2014 In-Service: 37 Kaloi Substation 2008-0070 Y00119 38 Kaloi Sub 46kV & 12kV Distr 2008-0070 Y00119 39 Kaloi Telecomm 2008-0070 Y00119 40 Kaloi Sub 12kV Work 2008-0070 Y00119 41 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 42 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele B0MVA Tsf #2 2011-0156 P0001492 45 DOT Airport DSG 2008-0329 P0001370 46 Cattle Bod MVA Tsf #1 2011-0156 P000264 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P000264 49 50 Total Net CIAC Additions 51 Last Five-Year Average 333,234			2010-0126	P0000681					
28 Kapolei Substation 2011-0026 Y00127 29 30 2013 In-Service: 31 Pukele 80MVA Tsf #3 2011-0156 P0001494 32 Kakaako Makai-Invilei 25kV DL 2009-0042 Y00038 33 Katoi Substation - Land - NOTE (2) 2008-0070 Y00119 (2,173,999) 34 North South Road 46kV Line 2008-0070 Y00119 35 36 2014 In-Service: 37 Kaloi Substation 2008-0070 Y00119 38 Kaloi Substation 2008-0070 Y00119 39 Kaloi Substation 2008-0070 Y00119 40 Kaloi Sub 12kV Work 2008-0070 Y00119 41 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 42 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 45 ODT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P000264 49 50 Total Net CIAC Additions 51 Last Five-Year Average 333,234									
2013 In-Service: 31 Pukele 80MVA Tsf #3 2011-0156 P0001494 32 Kakaako Makai-lwilei 25kV DL 2009-0042 Y00038 33 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 34 North South Road 46kV Line 2008-0070 Y00119 35	27	Mobile Radio Replacement		P0001595					
31 Pukele 80MVA Tsf #3 2011-0156 P0001494 Y00038	29	·	2011-0026	Y00127					
32 Kakaako Makai-Iwilei 25kV DL 2009-0042 Y00038 33 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 34 North South Road 46kV Line 2008-0070 Y00119 35 36 2014 In-Service: 37 Kaloi Substation 2008-0070 Y00119 38 Kaloi Sub 46kV & 12kV Distr 2008-0070 Y00119 39 Kaloi Telecomm 2008-0070 Y00119 40 Kaloi Sub 12kV Work 2008-0070 Y00119 41 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 42 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 50 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P0002264 49 50 Total Net CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,870 51 Last Five-Year Average			0044 0450	00004404					
33 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 (2.173,999) 34 North South Road 46kV Line 2008-0070 Y00119 35 2014 In-Service: 37 Kaloi Substation 2008-0070 Y00119 38 Kaloi Sub 46kV & 12kV Distr 2008-0070 Y00119 40 Kaloi Sub 12kV Work 2008-0070 Y00119 41 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 42 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 45 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P000264 49 50 Total Net CIAC Additions 33,234									
North South Road 46kV Line 2008-0070 Y00119 36					(2.173.999)				
36	34				(4,				
37 Kaloi Substation 2008-0070 Y00119 38 Kaloi Sub 46kV & 12kV Distr 2008-0070 Y00119 39 Kaloi Telecomm 2008-0070 Y00119 40 Kaloi Sub 12kV Work 2008-0070 Y00119 41 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 42 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 45 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P000264 49 50 Total Net CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,870 51 Last Five-Year Average 333,234		2014 In Service:							
Saloi Telecomm 2008-0070 Y00119			2008-0070	Y00119					
40 Kaloi Sub 12kV Work 2008-0070 Y00119 41 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 42 Kakaako Makai-DOT Queen-Cook 2009-0042 Y00038 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 45 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P0002264 49 50 Total Not CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,876 51 Last Five-Year Average 33,234									
41 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 (2,825 42 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 (2,825 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 45 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P000264 49 50 Total Net CIAC Additions 51 52 Last Five-Year Average 533,234	39	Kaloi Telecomm	2008-0070						
42 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 (2,825 43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 45 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P0002264 49 50 Total Net CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,870 51 52 Last Five-Year Average 333,234									
43 BPT Tank 133 Improvements 2010-0318 P0000900 44 Pukele 80MVA Tsf #2 2011-0156 P0001492 45 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P0002264 49 50 Total Net CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,876 51 52 Last Five-Year Average 33,234									10 005 000
44 Pukele 80MVA Tsf #2 2011-0156 P0001492 45 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P0002264 49 50 Total Net CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,876 51 52 Last Five-Year Average 33,234									(2,825,023)
45 DOT Airport DSG 2008-0329 P0001370 46 47 2016 In-Service: 48 Pukele 80MVA Tsf #1 2011-0156 P0002264 49 50 Total Net CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,870 51 52 Last Five-Year Average 33,234									
46 47									
48 Pukele 80MVA Tsf #1 2011-0156 P0002264 49 50 Total Net CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,870 51 52 Last Five-Year Average 33,234		• • • •							
49 50 Total Not CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,870 51 52 Last Five-Year Average 33,234									
50 Total Not CIAC Additions 34,279,435 25,138,983 31,759,325 42,125,490 32,870 51 52 Last Five-Year Average 33,234		Pukele 80MVA Tsf #1	2011-0156	P0002264					
52 Last Five-Year Average	50	Total Net CIAC Additions			34,279,435	25,138,983	31,759,325	42,125,490	32,870,076
		Last Five-Year Average						-	33,234,662 To Sch G

GENERAL NOTE:

The CIAC amounts of the major projects are reflected in the year that they were received. In previous Decoupling filings these amounts were from the respective year's GO7 plant addition annual reports which reports the CIAC in the year the project closed to plant. In the past, the total CIAC additions, which reflect actual contributions received in the year, may not have included the total major project CIAC from the GO7 report to the extent that the CIAC was received in advance, or in multiple payments over a span of more than one year. Source: UI Planner files: Actuals Scenario.

NOTE (1):

In Hawaiian Electric Transmittal No. 11-02, Attachment 4.1, page 3 (Revised 5/10/11), filed May 10, 2011, the Company reflected the removal of the Kahuku Wind Power project, due to approval for recovery through the REIP surcharge (Decision and Order and Dissenting Opinion of Lestie H. Kondo, Commissioner, Docket No. 2009-0176, filed on May 12, 2010). However, because these costs were included as part of the 2010 and 2011 plant additions in Hawaiian Electric's 2011 rate case (Docket No. 2010-0080), the Company did not seek to recover these costs through the REIP surcharge (see the Renewable Energy Infrastructure Program ("REIP") - Annual Report, p.2, footnote 3, filed in Docket No. 2007-0416, dated January 31, 2012). The recorded cost of this project is \$2,132,812 as shown on HECO-WP-E-001.

NOTE (2):

CIAC received for this project was not reflected in the 2012 and 2013 Decoupling filings as previous filings reported the CIAC amounts of the major projects from the respective year's GO7 plant addition annual report which reports the CIAC in the year the project closed to plant. See NOTE (1).

NOTE (3)

Adjustment to remove non-utility project related CIAC from the general ledger balance. Chapin UG Duct Line is a non-utility asset. It is a contributed asset that was given to the Company. It is not being used and there are currently no plans to use it. See Schedule G3, Line 94.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK MAJOR CAPITAL PROJECT CIAC ADDITIONS

Line			Estimated	
No.	Description	PUC Docket Reference	In Service Date	Amount
	(a)	(b)	(c)	(d)
1	2017 Major Project CIAC Additions by Project:	•		
2	Kakaako Makai DOT Queen-Cook Amount Qualifying for 2017 RAM	Docket No. 2009-0042 (D&O dated 8/7/2009) UI Planner Budget files	Apr-14	900,000
3	Total Major Project CIAC Additions for 2017 RA	M (See HECO-WP-G2-001)		\$ 900,000 To Sch G & D1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK CIAC AMORTIZATION

ine lo,	Description	2015 Balance	2016 Amortization	Balance	2017 Amortization
,	(a)	(b)	(c)	(d)	(8)
1	ClaC bullingae:				
2	CIAC by Vintage: 1981	\$ 30,233	\$ 1,778 \$	28,455	\$ 1,77
3	1982	96,324	5,351	90,973	5,35
4	1983	201,387	10,599	190,788	10,59
5 6	1984 1985	207,233 274,020	10,362 13,049	196,871 260,971	10,36 13,04
7	1986	406,403	18,473	387,930	18,47
8	1987	814,849	35,428	779,421	35,42
9 10	1988 1989	1,198,263 1,027,220	49,928 41,089	1,148,335 986,131	49,92 41,08
11	1990	5,785,848	222,533	5,563,315	222,53
12	1990 - Land	1,303,408		1,303,408	
13	1991	2,856,954	105,813	2,751,141	105.81
14 15	1992 1993	2,640,433 5,818,457	94,301 200,637	2,546,132 5,617,820	94,30 200,63
18	1994	4,305,754	143,525	4,162,229	143,52
17	1995	3,342,680	107,828	3,234,852	107,82
18	1996	2,628,634	82,145	2,546,489	82,14
19 20	1997 1998	2,005,866 2,957,220	60,784 86,977	1,945,082 2,870,243	60,78 86,97
21	1999	3,336,089	95,317	3,240,772	95,31
22	2000	2,248,309	62,453	2,185,856	62,45
23	2001	2,843,679	76,856	2,766,823	76,85
24 25	2002 2003	4,036,053 4,386,138	108,212 112,465	3,929,841 4,273,673	106,21 112,46
26	2004	3,055,031	76,376	2,978,655	76,37
27	2005	10,185,895	248,436	9,937,459	248,43
28	2006	8,773,464	208,892	8,564,572	208,89
29 30	2007 2008	9,332,099 8,602,065	217,026 195,502	9,115,073 8,406,563	217,02 195,50
31	2009	6,953,554	154,523	6,799,031	154,5
32	2010	13,019,216	283,026	12,736,190	283,02
33	2011	16,752,141	356,429	16,395,712	356,42 685,64
34 35	2012 2013	32,959,161 21,700,412	686,649 442,866	32,272,512 21,257,548	442.8
38	2014	30,163,055	603,261	29,559,794	603,20
37	2015	39,878,799	781,899	39,094,900	761,89
38	2016			16,679,551	327,05
39 40					
41	CIAC GET Adjustment:				
42	-adj 92-96 GET	(125,574)	(3,924)	(121,650)	(3,93
43	-adj 97 GET	(46,285)	(1,403)	(44,882)	(1,4)
44 45	-adj 98 GÉT -adj 99 GET	(57,707) (75,922)	(1,697) (2,169)	(56,010) (73,753)	(1,69 (2,16
46	-adj 00 GET	(73,032)	(2,029)	(71,003)	(2,0
47	adj 01 GET	(108,790)	(2,940)	(105,850)	(2,54
48	-adj 02 GET	(118,206)	(3,111)	(115,095)	(3,1
49 50	-adj 03 GET -adj 04 GET	(160,777) (112,423)	(4,122) (2,811)	(156,655) (109,612)	(4,1) (2,8)
51	-adj 05 GET	(231,075)	(5,636)	(225,439)	(5,6
52	-adj 06 GET	(506,511)	(12,060)	(494,451)	(12,0)
53	-adj 07 GET	(408,313)	(9,496)	(398,817)	(9,4)
54 55	-adj 08 GET -adj 09 GET	(334,225) (311,057)	(7,596) (6,912)	(326,629) (304,145)	(7,5) (6,9)
56	-adj 10 GET	(468,997)	(10,196)	(458,601)	(10,1
57	-adj 11 GET	(404,538)	(8,607)	(395,931)	(8,6)
58	-adj 12 GET	(508,739)	(10,599)	(498,140)	(10,5
59 60	-adj 13 GET -adj 14 GET	(671,937) (687,581)	(13,713) (13,752)	(658,224) (673,829)	{13,7 {13,7
61	-adj 15 GET	(952,861)	(18,684)	(934, 177)	(18,6
62	-adj 18 GET	, , ,	, , ,	(862,287)	(16,9
63					
64 65	In Kind CIAC				
68 88	<u>in - Kind CIAC;</u> 1988	331,355	13,806	317,549	13,8
67	1989	375,043	15,002	360,041	15,0
68	1990	195,626	7,524	188,102	7.5
69 70	1991 1992	420,241	15,565 42,380	404,676	15,5 42,3
70 71	1993	1,188,648 1,018,988	42,380 35,138	1,144,268 983,850	42,3 35,1
72	1994	1,712,025	57,068	1,654,957	57,0
73	1995	3,447,363	111,205	3,336,158	111,2
74	1996	1,796,969	56,155 28,470	1,740,814	56,1
75 76	1997 1998	939,513 1,819,388	28,470 53,511	911,043 1,765,877	28,4 53,5
77	1999	1,440,211	41,149	1,399,062	41,1
78	2000	2,974,883	82,636	2,892,247	82,6
7 9	2001	1,238,940	33,485	1,205,455	33,4
80 81	2002 2003	2,716,938 4,124,552	71,498 105,758	2,645,440 4,018,794	71,4 105,7
82	2003	2,536,095	63,402	2,472,693	63,4
83	2005	4,335,181	105,736	4,229,425	105,7
84	2006	3,891,509	92,655	3,798,854	92,6
85 86	2007 2008	7,702,686	179,132 26,180	7,523,554	179,1 28,1
87	2008	1,151,934 2,123,589	26,180 47,191	1,125,754 2,076,398	26,1 47,1
88	2010	4,756,036	103,392	4,652,644	103,3
89	2011	5,094,727	108,398	4,986,329	108,3
90	2012	3,889,035	81,022	3,808,013	81,0
91 92	2013 2014	3,209,208 1,703,987	65,494 34,080	3,143,714 1,669,908	65,4 34,0
93	2015	3 216 784	63,074	3,153,710	63.0
94	2015 - Chapin UG Conduit (non-utility)	618,464	•	618,464	
95	2016			20,497,017	401, 9
96					
97	Total CIAC Amortization for 2017 RAM	\$ 319,727,698	\$ 7,597,437 \$	348,444,542	\$ 8,309,

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS All Amounts \$000 (Except %)

Line					_		ng E	Basis Return on t	
No.	Description		erence		Οp	erating Income	_	Rate Base	Rate of Return
1	(a) Reported Operating Income before ratemaking adjustment	Dec 2016 Mo. PUC m & HECO-WP-H-001	(b) it, pg 2A	filed 2/24/17	\$	(c) 137,691	\$	(d) 1,880,758	(e)
2	Reternaking Adjustments to Line 1:	a neco-wr-m-oo							
2a	Incentive Compensation Expenses (net of tax)	HECO-WP-H-002				3,366			
2b	Discretionary and Other Expenses Not Recoverable (net of tax)	HECO-WP-H-002				922			
2c	Amortization of investment income differential	HECO-WP-H-003				185			
2d	Income tax on items to be replaced by synchronized interest	HECO-WP-H-003				(17,179)			
2e	Remove Accrued Earnings Sharing Refund	HECO-WP-H-005			_		_		
3	Ratemaking Basis Amounts - Post Tax	Sum Lines 1 & 2			\$	124,985	\$	1,880,758	
4	Ratemaking Capitalization			Balances		Ratios		Cost Rate	Weighted Cost
5	Short-Term Debt (12 mo. Avg)		\$	43,499		2.01%		0.66%	0.01%
6	Long-Term Debt (Simple Avg)		\$	856,436		39.65%		5.09%	2.02%
7	Hybrid Securities (Simple Avg)		\$	28,541		1,32%		7.21%	0,10%
8	Preferred Stock (Simple Avg)		\$	21,082		0.98%		5.38%	0.05%
9	Common Equity (Simple Avg)			1,210,614		56.04%		10.00%	5,60%
10	Total Capitalization	HECO-WP-H-004	\$	2,160,172		100.00%			7.78%
11	Line 3 Rate Base Amount						\$	1,880,758	
12	Weighted Cost of Debt (Surn Lines 5-7)						_	2.13%	
13	Synchronized Interest Expense						\$		
13a	Income Tax Factor (Note 1) Synchronized Interest Expense, net of tax						\$	1,636929121 24,473	
14		a a							\$ 100,512
	Post Tax Income Available for Preferred & Common (Line 3 - Line 13a								
17	Less: Preferred Income Requirement (Line 8 Weighted Cost times Ra	te Base)							940
18	Income Available for Common Stock								\$ 99,572
19	Ratemaking Equity Investment (Line 9 Ratio times Rate Base)								1,054,023
20	Return on Equity for Decoupling Earnings Sharing (Line 18/Line 19)								9.45%
21	Eemings Sharing Revenue Credits:			Basis Points					
22	Achieved ROE (basis points)			945					
23 24	Authorized Return (basis points) (D&O 30505 in Dkt No. 2010-0080, fi ROE for sharing (basis points)	led on June 29, 2012)		1,000	•				
25	Sharing Grid per RAM Provision			First 100 bp		Next 200 bp	,	All over 300 bp	Ratepayer Total
26	Distribution of Excess ROE (basis points)			0		0		0	
27	Ratepayer Share of Excess Earnings			25%	_	50%		90%	
28	Ratepayer Earnings Share - Basis Points			-		•		-	•
29	Revenue Credit per Basis Point (Note 2)								\$ 189
30	Earnings Sharing Revenue Credits (thousands)								\$.
_									To Sch A Line 5
Footnote 1	as: Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate)					38.91% 1.636929121			
2	Ratemaking Equity Investment (line 19) Basis Point = 1/100 of a percent Earnings Required per Basis Point (thousands) Times: Income Tax Conversion Factor Pretax Income Required per Basis Point (thousands) Times: Revenue Tax Conversion Factor				\$ \$ \$	1,054,023 0,01% 105.40 1,636929121 173 1,0975			
	Revenue Requirement per Basis Point (thousands)				\$	189	•		

HAWARAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS All Amounts \$000 (Except %)

	· · · · · · · · · · · · · · · · · · ·	,,			FILED - 2013 De		AC DEVIC	ED - 2013 Decoup	ulas Eilias
Line				Ratema	tiement Revised ung Basis Return o	on Equaty	Ratema	akıng Basıs Retum o	on Equity
No	Description	Reference		Operating Income	Rate Base	Rate of Return	Operating Income	Rate Base	Rate of Return
	(n)	(0)		(c)	(d)	(e)	(c)	(d)	(e)
1	Reported Operating Income before ratemaking adjustment	Dec 2012 Mo, PUC rp 8 RECO-WP-H-001	n, pg 2A filed 2/19/13	\$ 119,924	\$ 1,531,778		\$ 119,924	\$ 1,531,776	
18	Adjustment to 2012 Interest Expense on Customer Depose (net of	tax) (Note 3)					32		
2	Ratemaking Adjustments to Line 1:								
20	Incentive Compensation Expenses (net of tax)	HECO-WP-H-002		3,782 868			3,752 688		
26 2c	Discretionary and Other Expenses Not Recoverable (not of tax) Amortz ation of investment income differential	HECO-WP-H-002 HECO-WP-H-003		194			194		
2d	Income tax on dems to be replaced by synchronized interest	HECO-WP-H-003		(14,210)			(14,210))	
2•	CA Adjustment to Remove Accrued Earnings Sharing Refund			1,158			1,158		
3	Ratemaking Basis Amounts - Post Tax	Sum Lines 1 & 2		\$ 111,714	\$ 1,531,776		\$ 111,746	\$ 1,531,778	
4	Ratemaking Capsakration.		Batances	Ratios	Cost Rate	Weighted Cost			
5	Short-Term Debt (12 mo. Avg)		\$ 73,702	4 26%	0.52%	0.02%			
В	Long-Term Debt (Simple Avg)		\$ 676,936	39,10%	5.79%	2.26%			
7	Hybrid Securities (Simple Avg)		\$ 28,104 \$ 20,862	1.62%	7,33% 5,44%	0,12% 0,07%			
8	Preterred Stock (Simple Avg) Common Equty (Simple Avg)		\$ 20,002 \$ 931,512	53 81%	10.00%	5 38%			
•	Common Eduty (Surple Avg)			•	10.00 10				
10	Total Captatization	HECO-WP-H-004	\$ 1,731,115	100.00%		7.85%			
11	Line 3 Rate Base Amount				\$ 1,531,776			\$ 1,531,776	
12	Weighted Cost of Debt				2,40%			2 40%	
13	Synchronized Interest Expense Income Tax Factor				\$ 36,763 1 636929121			\$ 38,763 1.836929121	
138	Synchronized interest Expense, net of tax				\$ 22,459			\$ 22,459	
14	Post Yex Income Available for Preferred & Common (Line 3 - Line					\$ 89,255			\$ 89,287
17	Less: Preferred Income Requirement (Line 8 Weighted Cost times	Rate Base)				1,072	:		1,072
18	Income Available for Common Stock					\$ 68,183			\$ 88,215
19	Ratemaking Equity investment (Line 9 Retio times Rate Base)					824,247	1		<u>B24,247</u>
20	Return on Equity for Decoupting Earnings Sharing					10.70%			10.70%
21	Earnings Sharmo Revenue Credits		Basis Ponts					Basis Ponts	
22	Achieved ROE (basis points)		1,070					1,070	
23 24	Authorized Return (basis points) ROE for sharing (basis points)		1,000	•				1,000	•
25	Sharing Grid per RAM Provision		First 100 bp	Next 200 bp	All over 300 bp	Ratepayer Yotal		First 100 bp	Ratepayer Total
26	Distribution of Excess ROE (basis poetts)		70	. 0	0			70	•
27	Ratapayer Share of Excess Earnings		25%		90%			25%	
28	Ratepayer Earnings Share - Basis Points		17	-	-	17		18	18
29	Revenue Credit per Basis Point (Note 2)					\$ 148	9		5 148
30 31	Earnings Sharing Revenue Credits (thousands) Additional Earnings Sharing Revenue Credits (thousands)					\$ 2,586.19	,	Additional ESM	\$ 2,500.58 \$ 14.485 [a]
32	•						Interest Rate	(Note 4)	1.75% (b)
33							No at Years	(June 2013- May 2017)	4 (c)
34							Additional	ESM with interest	\$ 15.526 (a)*((1-(b))*(c)) To Sch A Line Sa
Feetnote	s '						i		10 5000 MM NO
1	Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate)			38.91% 1.636929121			38 919 1.63692912		
2	Ratemaking Equity Investment (line 19)			\$ 624,247			\$ 824,247		
	Basis Point = 1/100 of a percent			0.01%		İ	0 019		
	Earnings Required per Basis Point (thousands)			\$ 62.42 1,638929121		j	\$ 82.42 1.63592912		
	Times: Income Tax Conversion Factor Pretax Income Required per Basis Point (thousands)			1.638929121 \$ 135	•		\$ 1.03692912 \$ 135		
	Tenes: Revenue Tax Conversion Factor			1.0975			1,097	<u>5</u>	
	Revenue Requirement per Basis Point (thousands)			\$ 148	•		\$ 146		

The adjustment on line 34 represents additional refunds in the year the ESM was triggered in 2012 plus interest for the period June 2013 through May 2017. In July 2018, the Companies discovered the interest expense accrued for financial statement purposes had erroneously been overstated since May 2012 due to the incorrect programming of a report developed when the Customer Information System was emplemented. The report miscalculated accrued interest on released deposits that had been transferred to the new Customer information System. The misstatement was deemed immaterial and no prior period adjustment was warranted for financial reporting purposes. However, a resulted in an understatement of the Earnings Sharing Mechanism in the ESM in this year. See further discussion at HECO-WP-H1-001.

⁴ In Decision and Order No. 31908 in Docket No. 2013-0141, filed on February 7, 2014, the Commission ordered the Company to utilize the short term debt rate as established in deriving the consolidated cost of capital in the last full rate case in computing interest on the outstanding RBA batance. The Commission approved the RBA tartiff amendments for the Company implementing the revised interest rate as of March 1, 2014 in Decision and Order No. 32001 filed March 28, 2014. As a result, the interest rate used to compute the RBA interest was changed from 6% to 1,75% as of March 1, 2014. This interest rate is used to calculate interest on the delayed refund to customers.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK PUC-ORDERED ADJUSTMENTS

Line				
No	Description	Reference		
	(a)	(b)	(c)	(d)

This Schedule has not been developed yet and will be developed only when/as needed.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RAM CAP

Line No.	Description	Reference	Amount \$000
	(a)	(b)	(c)
1	2015 Target Revenues subject to escalation	3/31/16 Decoupling, Sch J	637,351
2	2016 RAM Cap Increase excluding Exceptional & Other Matters	3/31/16 Decoupling, Sch J	9,560
3	2016 Target Revenues subject to escalation	· -	646,911
4	2017 GDP Price Index	Sch C	2.00%
5	2017 RAM Cap Increase excluding Exceptional & other Matters	Line 3 x Line 4	12,938
6	RAM Cap for 2016 RAM Revenue Adjustment	3/31/16 Decoupling, Sch J	84,804
7	RAM Cap for 2017 RAM Revenue Adjustment	Line 5 + Line 6	97,742
			To Sch A1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EXCEPTIONAL & OTHER MATTERS

Line No.	Description	Reference	Amount \$000		
	(a)	(b)		(c)	
1	CIP CT-1 Reg Asset	Schedule K1, pg. 1	\$	1,238.2	
2	CIS Deferred Cost	Schedule K1, pg. 2		2,150.8	
3	2017 Revenue Adjustment for Exceptional & Other Matters		<u>\$</u>	3,389.0 To Sch A1	

Note 1 <u>Exceptional and Other Matters:</u>

See Order No. 32735, filed March 31, 2015, paragraph 107, page 94 - 95:

"The Basis used in determining the RAM Cap shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Cap."

Footnote 149 stipulates that such applicable matters include adjustments accounting for CT-1 costs (for Hawaiian Electric) and CIS costs (for all of the Hawaiian Electric Companies) as provided in a stipulated agreement approved by the Commission as amended in Order No. 31126 in Docket No. 2008-0083.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EXCEPTIONAL & OTHER MATTERS - CIP CT-1 \$ in thousands

			HECO 2011 Tes	i Yea	ar Rate Base	HECO 20	17 R	AM Rate Base	(Note	1)
Line No.	Description	Reference	Beg. Balance 12/31/2010	Bu	udgeted Balance 12/31/2011	corded at /31/2016		M Projected Amounts		mated at 31/2017
	(a)	(b)	 (c)		(d)	(e)		(f)		(g)
1	CIP CT-1 Regulatory Asset	HECO-WP-D1-001A	\$ •	S		\$ 2,306	\$	(954)	\$	1,352
2	CIP CT-1 ADIT		•		-					
3	28598 - CIP Interest	Note 2			-	(664.60)		275		(390)
4	Adjustment	HECO-WP-D4-003/ HECO-WP-K1-001			· ·	 229		(95)		134
5	Total	Sum Line 1 - Line 4	\$	5	-	\$ 1,871	\$	(774)	\$	1,097
6	2017 Average Balance				•				\$	1,483,9
7	Change in Rate Base								5	1,483.9
8	Pretax Rate of Return	Schedule D						_		11.74%
9	Pretax Return Requirement	Line 7 x Line 8							S	174
10	CIP CT-1 Reg Asset Amortization	HECO-WP-D1-001A						_		954
11	•	Sum Line 9 + Line 10							\$	1,128
12	Revenue Tax Factor (1/(1-8,885%))	Schedule D						_		1.0975
13	Return Requirement	Line 11 x Line 12						_	\$	1,238.2
										To Sch K

Note 1 See Order No. 32735, paragraph 107, Page 94 - 95, filed March 31, 2015, in which the commission noted that the basis used in determining the RAM Cap shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Cap. Accordingly, adjustments for CT-1 costs (for Hawaiian Electric) and CIS costs (for all of the Hawaiian Electric Companies) as provided in a stipulated agreement approved by the commission as amended in Order No. 31126 in Docket No. 2008-0083 are being treated as Exceptional & Other Matters not subject to the RAM Cap.

Note 2 #28598 - CIP Inter	est
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#28598 - CIP Interest	Reference	Federal	State	Total
Balance at 12/31/16	HECO-WP-D4-001	(561,860)	(102,740)	(664,600)
Monthly Amortization;				
Depreciation	HECO-WP-D1-001A, Page 2	20,944	20,944	
AFUDC Debt	HECO-WP-D1-001A, Page 2	17,647	17,647	
AFUDC Full Debt	HECO-WP-D1-001A, Page 2	20,308	20,308	
Total Monthly Amortization		58,898	56,698	
Number of Months		12	12	
Annual Amortization	•	706,782	706,782	
Tax Rate	Schedule F	32.8947%	6.0150%	
2017 Deferred Taxes		232,494	42,513	275,007
Balance at 12/31/17		(329,366)	(60,227)	(389,593)

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EXCEPTIONAL & OTHER MATTERS - CIS \$ in thousands

				HECO 2011	Tes	st Yea	r Rate Base	HECO 20	17 RAM R	ste Basi	(Note	1)
Line No.	Description	Reference		Beg. Balance 12/31/2010		Bu	dgeted Balance 12/31/2011	Recorded at 12/31/2016	RAM Pro	,		nated at 1/2017
	(B)	(b)	_	(c)			(d)	(e)	(f)			(g)
1	CIS Def Cost	HECO-WP-D1-001B	\$			5	•	10,266		(1,220)		9,046
2	CIS ADIT											
3	28532 - CIS Project	Note 2			-			(3,758)		446		(3,311)
4	Adjustment	HECO-WP-D4-003/ HECO-WP-K1-001						190		(23)		168
5	Total	Sum Line 1 - Line 4	\$		-	5	•	\$ 6,698	\$	(796)	\$	5,903
6	2017 Average Balance										5	6,300,6
7	Change in Rate Base									١	\$	6,300.6
8	Pretax Rate of Return	Schedule D										11.74%
9	Pretax Return Requirement	Line 7 x Line 8									5	739.7
10	CIS Def Cost Amortization	HECO-WP-D1-0018									5	1,220.0
11		Sum Line 9 + Line 10									\$	1,959.7
12	Revenue Tax Factor (1/(1-8.885%))	Schedule D										1.0975
13	Return Requirement	Line 11 x Line 12									\$	2,150.8
	•											To Sch K

Note 1 See Order No. 32735, paragraph 107, Page 94 - 95, filed March 31, 2015, in which the commission noted that the basis used in determining the RAM Cap shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Cap. Accordingly, adjustments for CT-1 costs (for Hawaiian Electric) and CIS costs (for all of the Hawaiian Electric Companies) as provided in a stipulated agreement approved by the commission as amended in Order No. 31126 in Docket No. 2008-0083 are being treated as Exceptional & Other Matters not subject to the RAM Cap.

Note 2	#28532 - CIS Project costs				
	•	Reference	Federal	State	Total
1	Balance at 12/31/16	3/31/16 Decoupling, Sch K1	(3,177,007)	(580,938)	(3,757,947)
2	2017 Tax Amortization	HECO-WP-K1-002		=	
3	State Tax Deduction	Line 5 for State	-		
4	Tax Rate	HECO-WP-F-001	35,000%	6,0150%	
5	2017 Deferred Taxes	(Line 2 + Line 3) x Line 4	-	-	-
6	Book Amortization	HECO-WP-K1-002	1,147,497	1,147,497	
7	Tax Rate	Schedule F	32,8947%	6,0150%	
8	2017 Deferred Taxes	Line 6 x Line 7	377,466	69,022	446,488
9	Balance at 12/31/17	Line 1 + Line 5 + Line 8	(2,799,542)	(511,916)	(3,311,459)

Hawaiian Electric Company, Inc. Sales Forecast for June 2017 to May 2018 in GWh

- α	Apr May	İ	110.6 116.1	110.6 116.1 25.2 27.1	110.6 116.1 25.2 27.1 153.1 162.7	110.6 116.1 25.2 27.1 153.1 162.7 240.3 251.0	5.7 110.6 116.1 1,457.3 5.7 25.2 27.1 311.6 3.0 153.1 162.7 1,883.1 1.7 240.3 251.0 2,977.2 3.2 2.9 3.0 35.2
2018	Mar	1167		25.7	25.7 25.7 153.0	25.7 153.0 241.7	25.7 153.0 241.7 3.2
	1						24.6 23.3 149.5 146.8 239.5 225.2 3.1 2.7
	_						26.3 154.6 244.8 3.0
	1						25.6 155.1 246.7 2.7
	티팅	129.1		28.0	28.0	28.0 164.8 263.8	28.0 164.8 263.8 3.0
2017	dəs	127.5		26.3	26.3 162.5	26.3 162.5 256.8	26.3 162.5 256.8 3.0
	,						27.1 165.1 268.9 2.9
	미리	127.3		26.8	26.8 163.0	26.8 163.0 259.5	25.6 26.8 152.9 163.0 239.0 259.5 2.7 3.0
	티	117.2		25.6	25.6 152.9	25.6 152.9 239.0	25.6 152.9 239.0 2.7
		œ		ග	ტ ¬	0 - c	Оэсг

Source: Hawaiian Electric Company, Inc. Sales Forecast Update completed in October 2016.

Hawaiian Electric Company Energy Delivery Methodology Comparison

				Α	В	C = A - B
Line	Account Group	Ind		Current Method	Old Method	Difference
1	G10	ВО	Billable Incidental Electric Revenue	-		•
2	G20	NE	Non-billable O&M Expense other than Supervision	4,216	3,061	1,154
3	G30	NE	Non-billable O&M Expense other than Supervision	11,479,318	15,775,456	(4,296,138)
4		BE	Billable O&M Expense	384,570	193,100	191,470
5		NS	Non-billable O&M Expense Supervision	273,186	423,401	(150,215)
6	G40	NN	Non-Regulated Expense	21	3,736	(3,715)
7		BN	Billable Non-Regulated Revenue & Expense	-	-	•
8	G50	NI	Non-billable Install (Capital)	33,485,323	26,979,333	6,505,990
9		NR	Non-billable Removal	2,472,763	4,665,884	(2,193,122)
10		BR	Billable Removal	334	786	(452)
11	G60	BE	Billable O&M Expense	112,868	91,976	20,892
12		BC	Billable Clearing	139,900	3,574	136,325
13		ВІ	Billable Install	77,461	134,943	(57,482)
14		BP	Billable Preliminary Engineering	23,125	45,056	(21,930)
15		BR	Billable Removal	2,245	3,024	(779)
16	G70	ND	Non-billable Deferred	12,037	80,924	(68,888)
17		BT	Billable Temporary Facilities	159,432	222,542	(63,110)
18	G80	NC	Non-billable Clearing	•	-	-
19		NP	Non-billable Preliminary Engineering	-	•	•
20	G90	BD	Billable Deferred		•	•
21			Totals	48,626,797	48,626,797	(0)
22			O&M expense items (Line 3 + Line 5)			(4,446,354)
Note 1:	The total 20	16 O&M	impact of the change in on-cost clearing allocation amount is	s calculated as f	ollows:	
			Energy Delivery (ED) impact	Line	⊋ 22	(4,446,354)
			Power Supply (PS) impact		A1-001 p 2, e 21	(3,591,871)
						(8,038,224)
			Revenue Tax Factor	Scher	dule C	1,0975
			Adjustment for Change in On-cost Clearing Allocation			(8,821,951)
			-		•	To Sch A1

Hawaiian Electric Company Power Supply Methodology Comparison

				Α	В	C = A - B
Line	Account Group	Ind		Current Method	Old Method	Difference
1	G10	ВО	Billable Incidental Electric Revenue	-	-	-
2	G20	NE	Non-billable O&M Expense other than Supervision	1,418,168	741,747	676,421
3	G30	NE	Non-billable O&M Expense other than Supervision	6,711,297	10,302,463	(3,591,166)
4		BE	Billable O&M Expense	-	-	-
5		NS	Non-billable O&M Expense Supervision	844	1,549	(704)
6	G40	NN	Non-Regulated Expense	-	71	(71)
7		BN	Billable Non-Regulated Revenue & Expense	-	-	-
8	G50	NI	Non-billable Install (Capital)	4,407,431	1,385,489	3,021,942
9		NR	Non-billable Removal	281,844	309,087	(27,242)
10		BR	Billable Removal	-	-	-
11	G60	BE	Billable O&M Expense	43,656	104,932	(61,275)
12		BC	Billable Clearing	-	-	-
13		BI	Billable Install	1,989	4,039	(2,050)
14		BP	Billable Preliminary Engineering	14,404	30,252	(15,848)
15		BR	Billable Removal	-	-	-
16	G70	ND	Non-billable Deferred	3	8	(6)
17		BT	Billable Temporary Facilities	-	-	-
18	G80	NC	Non-billable Clearing	-	-	-
19		NP	Non-billable Preliminary Engineering	-	-	
20			Totals	12,879,636	12,879,636	(0)
21			O&M expense items (Line 3 + Line 5)			(3,591,871)

HAWAIIAN ELECTRIC COMPANY, INC. **DECOUPLING CALCULATION WORKBOOK** DETERMINATION OF TOTAL RAM REVENUE ADJUSTMENT ALLOWED

CORRECTION OF 2016 DECOUPLING FILING 2016 Decoupling Filing Description Reference Amount Line No. (a) RAM REVENUE ADJUSTMENT DETERMINED ACCORDING TO EXISTING TARIFFS AND PROCEDURES Note 4 As Filed Corrected * Schedule C 18.724.148 \$ 18,724,148 ORM RAM Schedule D 54,812,505 \$ Rate Base RAM - Return on Investment 54,812,505 2 S Depreciation & Amortization RAM Expense Schedule E 40,425,560 40,425,560 3 Total RAM Revenue Adjustment 113,962,213 \$ 113.962.213 Δ (6,033,497) (8,058,964) Less: Adjustment for Change in On-cost Clearing Allocation 5 Note 3 Total Adjusted RAM Revenue Adjustment 107,928,716 \$ 105,903,249 RAM REVENUE ADJUSTMENT CAP RAM Cap for 2016 RAM Revenue Adjustment 7 Schedule J 84,804,271 \$ 84,804,271 Plus: Exceptional and Other Matters Schedule K 3,591,069 3,591,069 8 2016 Cap - Total RAM Revenue Adjustment (Note 2) 88,395,340 \$ 88,395,340 9 Total RAM Revenue Adjustment Allowed (Note 1) 10 Lesser of Line 4 or Line 7 88,395,340 88,395,340 To Sch A To Sch A

RAM Revenue Adjustment Allowed: Note 1

See Order No. 32735, filed March 31, 2015, paragraph 106, page 94:

"The RAM Revenue Adjustment to be applied to determine effective Target Revenues will be the lesser of (a) the RAM Revenue Adjustment determined according to existing tariffs and procedures or (b) a RAM Revenue Adjustment Cap ("RAM Cap) to be calculated as specified."

Note 2 Total RAM Cap:

See Order No. 32735, filed March 31, 2015, paragraph 110, page 96:

"The RAM Cap will apply to the entire RAM Revenue Adjustment including the O&M RAM, Rate Base RAM (including Major Capital Projects and Baseline Projects), and the Depreciation and Amortization RAM."

Order No. 32866, par. 18 required the Company to adjust its 2015 RAM Revenue Adjustment to reflect the O&M Note 3 expense reduction impact associated with the change in on-cost clearing allocation identified by the Company. The adjustment made to the 2015 RAM revenue adjustment was based on the 2014 O&M expense impact of the change in on-cost clearing allocation. In calculating the 2016 RAM Cap, prior year's adjustment was incorporated in 2015 target revenues that has been escalated to compute the 2016 RAM Cap (See Schedule J). In calculating the 2016 RAM revenue adjustment determined according to existing tariffs and procedures, the adjustment has been updated to reflect the 2015 O&M impact of the change in on-cost clearing allocation. See HECO-WP-A1-001 for the calculation.

Note 4 Adjustments to the 2016 Decoupling filing on-cost clearing allocation calculation were identified in 2017 and corrected. The 2016 Schedule A1 and HECO-WP-A1-001 were corrected and included as HECO-WP-A1-002 for reference. Revisions had no impact to the 2016 Decoupling filing because the RAM Revenue Adjustment Cap was utilized in determining the Total RAM Revenue Adjustment Allowed.

(1,720,109) (155,549) (15,745)1,910,398 (13,605) 17.417 (8,162) Curen (5,043,157) 123,163 (166,852) (3,431) 5,876,901 (709,378) Difference 29,311,020 4,533,319 79,550 9,071 157,489 82,578 293,180 As Corrected 50,951,332 Revised 싫 10,920,438 240,409 226,093 166 35,187,921 3,823,941 29,745 202,113 (0) 50,951,331 2016 Decoupling Filing 1,060 (3,197,245) 123,163 (166,852) (19,177) (1.210)4,156,792 (864,927) (5,035) (91,066) 67,789 54,038 (63,974) 6,645 C = A - B 25,190 13,921,002 117,245 392,945 21,014 31,221,418 4,700,215 65,945 9,071 157,489 26,618 293,180 50,951,332 Old Method 8 (1,210)26,250 10,723,757 240,409 226,093 1,837 21,583 202,113 133,733 63,109 93,515 35,378,210 3,835,288 Current Method Billable Incidental Electric Revenue Non-billable O&M Expense other than Supervision Non-billable O&M Expense other than Supervision Non-Regulated Expense Biltable Non-Regulated Revenue & Expense Non-billable Install (Capital) Billable O&M Expense Non-billable O&M Expense Supervision O&M expense items (Line 3 + Line 5) Non-billable Clearing Non-billable Preliminary Engineering Billable Pretiminary Engineering **Billable Temporary Facilities** Billable O&M Expense Non-billable Deferred Non-billable Removal Billable Removal Billable Clearing Billable Deferred Billable Removal Billable Install Hawaiian Electric Company Energy Delivery Methodology Comparison Totals Group G10 G20 G30 Account 670 88 88 9 9 99 8 0 0 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1

Note 1: The total 2015 O&M impact of the change in on-cost clearing allocation amount is calculated as follows:

(5,210,008)	(7,343,020) 1,0975 (8,056,964) To WP-A1-002, page 1
HECO-WP-A1-002 p Line 21	
(3,364,097) (2,133,395) HE	(5,497,492) 1.0975 (6,033,497) To Sch A1
Line 22 HECO-WP-A1-002 p 2, Line 21	Schedule C
Energy Delivery (ED) impact Power Supply (PS) impact	Revenue Tax Factor Adjustment for Change in On-cost Clearing Allocation

(383) 읭 Current 258,633 (2,131,172) (1,840) 1,462,749 (53,415) (2,133,012) Difference 3,579 1,555,130 98,610 712,188 6,497 9,171 12,551,964 12,551,964 9,832,677 970,820 3,017,879 806,116 45,195 3,672 5,036 2016 Decoupling Filing Current 9 Difference 258,634 (2,131,555) (1,840) (28) (53,424) (2,826) (4,135) 1,463,008 472,915 (748) (2,133,395)C=A.B 712,225 9,833,288 3,579 1,554,677 333,130 6,497 9,171 98,620 12,551,964 As Filed 8 1,740 970,859 3,017,684 806,045 3,672 5,036 45,196 Current Non-billable O&M Expense other than Supervision Non-billable O&M Expense other than Supervision Non-Regulated Expense
Billable Non-Regulated Revenue & Expense
Non-billable (install (Capital)
Non-billable Removal
Billable Removal
Billable O&M Expense Non-billable O&M Expense Supervision O&M expense items (Line 3 + Line 5) Non-billable Preliminary Engineering Billable Incidental Electric Revenue Billable Preliminary Engineering Billable Temporary Facilities Billable O&M Expense Non-billable Deferred Non-biltable Clearing Billable Removal Insta Billable Hawaiian Etectric Company Power Supply Methodology Comparison Account Group G10 G20 G30 640 650 99 670 G80 9 1

Hawalian Electric Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/14 RBA Balance

				2016		
		January	February	March	April	Мау
Billed RBA Revenues	Note 1	10,899,565	11,222,564	10,390,022	11,575,414	10,982,716
Net Unbilled Revenues	Note 1	389,777	(549,145)	690,937	(348,785)	828,007
Total billed + Unbilled		11,289,343	10,673,419	11,080,958	11,226,629	11,810,723
x % Share for RBA	Note 2	45.0537%	45.0537%	45.0537%	45.0537%	45.0537%
RBA Revenues (Recovery of 12/31/14 RBA balance)		5,086,272	4,808,775	4,992,387	5,058,017	5,321,173
		<		ichedule B2 ·		
Less: Revenue Taxes	0.08885	(451,915)	(427,260)	(443,574)	(449,405)	(472,786)
RBA Revenues (Recovery of 12/31/14 RBA balance),		4,634,357	4,381,515	4,548,813	4,608,612	4,848,387
net of Revenue Taxes				Schedule B -		 ⇒

^{*} Differences are due to rounding

Note 1: RBA rate adjustment revenues per the Billed reports and Unbilled reports include RBA revenues and RAM revenues. Therefore, an allocation % is utilized to determine RBA revenues.

Note 2: RBA Rate Adjustment Allocation for June 1, 2015 - May 31, 2016 is per Transmittal No. 15-03 (Decoupling) - RBA Rate Adjustment (Filed June 3, 2015), Schedule A, Note (1).

Hawaiian Electric Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/15 RBA Balance

					2016			
		June	July	August	September	October	November	December
Billed RBA Revenues	Note 1	12,034,487	11,868,072	13,100,432	12,789,669	12,581,092	11,476,932	11,805,176
Net Unbilled Revenues	Note 1	(483,747)	715,342	68,265	(345,866)	(168,204)	(96,135)	(96,655)
Total billed + Unbilled		11,550,740	12,583,413	13,168,697	12,443,803	12,412,888	11,380,797	11,708,520
x % Share for RBA	Note 2	35.0364%	36.0364%	36.0364%	36.0364%	36.0364%	36.0364%	36.0364%
RBA Revenues (Recovery of 12/31/15 RBA balance)		4,162,467	4,534,605	4,745,520	4,484,294	4,473,154	4,101,226	4,219,325
		€			Schedule 82			>
Less: Revenue Taxes	0.08885	(369,835)	(402,900)	(421,639)	(398,430)	(397,440)	(364,394)	(374,887)
RBA Revenues (Recovery of 12/31/15 RBA balance),		3,792,632	4,131,705	4,323,881	4,085,864	4,075,714	3,736,832	3,844,438
net of Revenue Taxes					Schedule B			-

^{*} Differences are due to rounding

Note 1: RBA rate adjustment revenues per the Billed reports and Unbilled reports include both RBA and RAM revenues. Therefore, an allocation % is utilized to determine RBA revenues.

Note 2: RBA Rate Adjustment Allocation for June 1, 2016 - May 31, 2017 is per Transmittal No. 16-01 (Decoupling) - RBA Rate Adjustment (Filed March 31, 2016), Schedule A, Note (1).

HECO-WP-8-002 HAWAJIAN ELECTRIC COMPANY, INC. FEB 2016 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO P TO J RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED		Fob-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-16	Jan-16	
11-15 (18-12-11) (18-12-11) (18-12-11) (18-12-11)	Alonthy Target Revenue Recoded Adjusted Revenue Target va Actual Revenue Target va Actual Revenue Reversal di Pervious Year Accual Net RBA Change Reganning RBA Balance End Balance Bolore Interest Balance Subject to Interest Uniterest Uniterest	41,784,635 30,986,462 2,786,173 (4,873,416) (2,077,243) 56,192,651 36,102,651 36,102,651 56,103,558	46,596,907 42,716,783 42,716,783 (5,192,949) (1,312,830) 56,170,976 54,656,148 319,13,45 48,456 54,907,604	45,101,204 42,105,471 (5,327,184) (2,327,185) (2,351,405) 54,910,779 52,593,314 32,556,740 47,872 52,607,186	48,552,627 43,533,632 43,533,632 (5,401,784) (382,5637,239 52,231,118 46,715 52,291,365	48,047,584 41,984,944 (3,665,156) 2,387,484 52,304,205 54,691,699 47,661,699 47,661,699 47,661,699 47,661,699 47,661,699	51,226,633 47,281,491 47,281,491 (5,301,634) (1,356,782) 54,740,587 35,383,865 35,383,865 46,164 46,164 53,431,969	\$2,782,780 48,62,280 48,62,280 (5,577,653) (2,247,123) 55,446,838 31,1964,349 46,615 51,246,428	50,702,234 47,377,603 3,324,631 (5,375,270) (2,656,039) 51,234,324 49,133,565 30,672,681 49,731	51,284,800 45,880,541 45,880,541 314,286 49,251,829 49,561,123,944 44,018 44,018	46.247,991 46,025,249 46,025,219,742 (5,072,650) (2,852,903) 46,757,235 29,435,418 42,927 46,600,162	48,247,891 45,125,645 3,125,346 (4,877,639) (1,752,293) 48,605,320 48,048,027 28,055,078 46,914 46,914	47,308,677 43,233,334 4,075,343 4,0634,357 45,008,841 44,559,927 27,374,093 33,921 44,569,848	
	Terpet va Actual Difference: Recoded Adjusted Revenues - Unadjusted Billing Adjustments Revised Revenues Terget	38,968,462 (1,683) 38,966,579 41,764,635 2,798,056	42,716,788 (1,926) 42,71,850 46,596,907 3,882,047	42,125,471 (1,771) 42,123,700 45,101,204 2,977,504	41,533,632 (1,622) 43,532,010 48,552,627 5,020,817	41,994,944 (1,558) 41,993,385 48,047,584 6,054,198	47,281,491 (1,483) 47,280,008 51,226,633 3,946,625	49,462,250 (969) 49,461,290 52,792,780 3,331,490	47,377,603 47,377,603 50,702,234 3,324,631	45,860,541 45,860,541 51,284,900 5,424,359	46,028,249 46,028,249 48,247,891 2,219,742	45,122,645 45,122,645 45,122,643 48,247,991 3,125,346	43,233,334 43,233,334 47,308,677 4,075,343	Letal Billing Advisiment (11,204)
AS REVISES: 1.1 1.2 1.3 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Monthly Target Revenue Recorded Adgister Revenue Target vs. Actual Revenue Reversal of Previous Year Accual Net RBA Chonge Segning RBA Battace Beginning RBA Battace End Battace Baters Interest Battace Subject to Interest Interest	41,764,635 38,966,579 2,788,056 2,788,056 (4,873,418) (2,073,360) 58,179,894 56,179,894 34,908,178 50,908 56,125,442	46,596,907 42,714,889 42,714,889 (3,182,949) (1,310,902) 54,601,957 31,915,585 43,469 54,911,417	45,101,204 45,101,204 42,123,700 (2,327,195) (2,345,632 54,914,592 54,914,592 32,829,610 47,877 52,612,775	46,552,027 43,532,010 43,532,010 (5,401,784) (340,967) 32,632,028 46,721 52,298,592 52,298,592	Junu18 40,047,584 41,983,346 6,054,189 (3,655,169) 2,383,042 2,383,042 2,383,042 84,700,464 47,688 54,746,132	412.00 47.20,008 47.20,008 5.30,008 5.30,309 11.353.309 54.74,379 46.772 53,442,242	Aug-16 52,792,780 48,46;290 (5,577,653) (2,246,163) 53,45,209 51,211,045 51,211,045 51,217,045 51,217,045 51,217,045 51,277,869	Sep-15 50,702,234 47,377,603 47,377,603 47,378,270 (2,050,639) (2,050,639) (2,050,639) 49,144,565 49,144,565 49,144,565 49,144,965 49,144,965 49,144,965	95118 51.284.900 58.580,541 51.10,063) 314.798 49.577,376 44.678 44.678 49.621,404	48.247,991 48.247,991 46.028,249 (5.072,650) (2.852,808) 48.768,498 29.442,295 42,397 46,611,433	48,247,991 48,247,991 45,122,445 (4,877,639) (1,752,203) (4,752,203) 45,059,286 26,051,591 40,782 40,782 45,100,222	47,308,677 47,308,677 45,233,334 (4,504,357) 45,100,222 44,541,208 27,300,875 39,931 44,581,139	
	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	2,798,056 2,796,173 1,863	3,882,047 3,880,119 1,928	2,977,504 2,975,733 1,771	5,020,817 5,019,195 1,622	6,054,198 6,052,640 1,558	3,946,625 3,945,142 1,483	3,331,490 3,330,530 960	3,324,631	5,424,359	2,219,742	3,125,346	4,075,343	Lotal BBA Adivisiment 11,204

Note [1] to connection with Decision and Order No. 31908 on Schedule A of the Decoupling Investigation, issued on February 7, 2014, the Company received approval on April 20, 2014 from the Internal Revenue Service to change its tax testiment of RBA revenues from the balancing account (788A); evenue recognition nethod based on when rates are adjusted and revenues are collected, effective Jenuary 1, 2014. Accordingly, starting with May 2014, interiest is calculated on a net-of-income tax RBA balance, and the following income tax factor is used in the calculation.

Income Tax Factor (1 / 1-tax rate) 1.636929121

Note [2] Totals may not add exactly due to rounding.

Note [3]. Company recorded an adjustment to the RBA related to a customer billing adjustment due to a P to J rate change that were processed in February 2018. During the regular control performed by Billing, it was determined that a Schedule P customer was billed under an increase an effect to based on recent IVM usage. The Company recalculated the RBA based on the billing adjustment the portion months incurred. No interest impact was calculated as the adjustment did not meet the interest recalculation breaked of \$50,000 per the Revenue Balancing Account provision terfit.

HECO-MP-8-003 HAWAIIAN ELECTRIC COMPANY, INC. FEB 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED		Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15
10 17-12 10 17-13 10 18-13)-20(18-17)-2-[1] 11 11-12 12 11-12 13 11-12 14 17-12 15 11-15 16 17-15 17 17-16 17 17-16 18 18 18 18 18 18 18 18 18 18 18 18 18 1	Monthly Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue Reversul of Pervious Year Accoust Reversul of Pervious Year Accoust Replanting Beginning REA Balance Beginning REA Balance Beginning Reve Interest Balance Subject to Interest Interest Ending REA Balance	44,129,429 40,445,741 3,643,648 (3,910,640) (256,952) 64,830,662 64,603,610 84,777,086 84,677,898	42,712,929 39,686,701 2,824,228 (3,873,501) (1,048,73) 64,700,876 63,651,603 64,776,239 63,590 63,590	45,981,776 41,326,526 4,655,250 (4,160,513) 4,040,334 63,660,874 64,155,611 39,041,545 56,936 64,155,611	48,725,408 43,277,375 5,448,033 (5,518,592) 64,212,547 64,119,188 39,205,693 57,175 64,199,163	50,451,219 45,900,584 4,550,635 (1,406,100) 64,199,163 36,783,063 36,785 62,783,063 36,568 62,849,631	52,004,449 46,563,655 5,440,794 (6,117,873) (67,7,079) 62,862,83,763 39,194,875 55,701 62,239,484	49,933,476 45,456,690 4,476,777 (6,024,186) (1,547,41) 62,267,41) 60,720,016 37,568,514 54,785 60,774,601	50,509,746 46,193,856 4,314,890 (1,613,236) (1,616,346) 60,846,256 59,029,912 36,616,787 53,399 59,063,311	47,517,346 43,033,461 4,43,878 4,514,770 (1,030,891) 58,205,801 58,174,910 35,853,934 52,287	47,517,340 42,608,961 4,708,379 (5,430,235) (6,455,031 56,455,031 57,733,175 35,489,687 35,784,931	46,596,907 41,131,344 5,465,563 (5,141,76) 35,701,569 58,115,356 35,403,770 55,630 56,166,886	41,764,635 38,968,462 2,796,173 (2,077,243) 56,102,631 36,102,651 36,907,603 56,153,558
	Target va Actual Difference: Recorded Aglaticd Revenues - Unadjusted Refing Adjustments Revised Revenues Target	40,445,741 40,445,741 44,129,429 3,683,688	39,888,701 39,888,701 42,712,929 2,824,228	41,328,528 41,326,528 45,881,778 4,655,250	43,277,375 43,277,375 46,725,408 5,448,033	45,900,584 (11,580) 45,889,004 50,451,219 4,562,215	46,563,655 (11,374) 46,552,281 52,004,449 5,452,168	45,456,699 (11,490) 45,445,209 49,933,476 4,438,267	46,193,656 (12,320) 46,191,536 50,508,746 4,327,210	43,033,461 (12,443) 43,021,018 47,517,340 4,498,322	42,808,961 (11,457) 42,797,504 47,517,340 4,719,536	41,131,344 (11,465) 41,110,879 46,596,807 5,477,028	38,969,462 (11,375) 39,957,087 41,764,635 2,807,548
AS REVISED		Mar-14	Apr-14	May-14	41m-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dnc-14	31.007	Feb-15
11 11-12 (19-12)-13-(1) 11-12 (19-12)-13-(19	Morthly Target Revenue Recorded Adjusted Revenue Target vs. Kanala Revenue Reversal of Previous Year Accural Not RBA Chango Beginving RBA subance End Balance Before Interest Balance Subject to Interest Inderest Ending RBA Balance	44,129,428 40,445,741 3,643,683 (3,910,640) (226,923,610 64,630,610 64,717,085 64,637,989	42,712,929 39,808,701 2,824,228 (3,873,501) 4,109,873 (4,176,239 (4,176,239 (5),641,176,239 (6),745,193	45,881,776 4,555,226 4,655,230 4,66,513) 4,64,737 63,660,874 64,155,811 39,04,1345 56,336	48,725,408 43,277,375 5,448,033 (5,518,592) (70,559) 64,21,343 57,175 64,199,163	50,451,219 45,683,004 4,562,215 (5,986,735) (1,394,530) (1,194,153) (1,194,153) (2,804,643 30,793,312 56,574 62,881,217	52.004,449 46,552.211 5,452.163 (6.117,873) 62,578,725 92,278,725 92,278,725 55,718 62,278 55,718	49,333,476 45,445,209 4,488,267 (6,024,188) (1,535,921) 62,754,480 37,564,059 37,564,059 54,810 60,809,290	50,508,746 46,161,536 4,327,210 (6,133,226) (1,006,026) (1,006,026) 55,436,641,619 55,436,530,157	47.517.340 43.021.018 4.486.322 (4.514.770) (1.018.440) 59.232.647 59.234.199 52.334 58.286.333	47.19.036 42.797.504 4.719.036 (5.430.235) (710.399) 56.51.003.908 35.529.435 57.655.782	46,586,907 41,119,818 5,477,028 (5,141,778) 335,252 57,862,97,612 51,639 56,249,371	41,784,635 38,957,087 2,807,548 (4,873,416) (2,065,868) 58,262,279 56,186,410 56,285 56,247,395
	Revised Adjustment to Roverus RBA Adjustment Recorded to Roverue Adjustment to Roverus	3,683,688	2,624,228	4,655,250	5,448,033	4,562,215 4,550,635 11,580	5,452,168 5,440,794 11,374	4,486,267 4,476,777 11,490	4,327,210 4,314,890 12,320	4,496,322 4,483,879 12,443	4,719,836 4,708,379 11,457	5,477,028 5,465,563 11,465	2,807,548 2,796,173 11,375
	Revised Interest Interest Recorded Adjustment to Interest	94,379 94,379	93,590	56,936	57,175	56,574 56,568 6	55,716 55,701 15	54,810 54,785 25	53,436 53,399 37	52,334 52,287 47	51,814 51,756 58	51,699 51,630 69	50,985 50,907 78

Note [1] monoton with Decision and Order No. 31900 on Schoolde A of the Decoupling Investigation, issued on February 7, 2014, the Compony received and April 28, 2014 from the Internal Revenue Service to change its tax treatment of RBA revenues from the behaving account (RBA) revenue recognition method based on when tales are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculation or net-of-thorane tax RBA behaving income tax factor is used in the calculation.

Income Tox Factor (1714sr rate) 1, 50.5929121

Note [2] Fotals may not add exactly due to rounding.

Note [3]
The Company recorded an adjustment to the RBA related to a customer billing adjustments that were processed in February 2018. The Company recalculated the RBA, Including interest, based on the billing adjustments in the prior months incurred.

HECO-WP-8-003 HAWAIIAN ELECTRIC COMPANY, INC. 3 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

FEB 2011	
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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

					278,536
	Pilor to Dec.	(274,640)		2015 2015 274,640	Prior to Des. 2015 1,896
		(21.773)		21,773	256 256
	<u>Totel Billing</u> Adheetment	(296,413)		Total RBA. Adiustment 296,413	Total Interest. Adjustment. 2,152
Jan-16 47,308,877 43,233,334 4,075,343 (4,634,357)	(559,014) 45,080,941 44,529,927 27,374,083 39,921 44,569,848	43,211,561 47,308,677 4,097,116	47,308,677 40,211,561 4,097,116 (4,694,357) (5,365,478 44,826,236 27,549,670 40,177 44,868,413	4,097,116	40,177 39,821 256
48.247.991 45.122.645 3.125,346 (4.077.639)	(1,752,293) 46,800,320 45,048,027 28,055,078 40,914 45,088,941	(22,183) 45,100,462 46,247,991 3,147,529 Dec-15	48,247,991 45,100,462 3,147,529 (4,477,539) (1,730,140) 47,054,437 45,324,328 28,217,094 41,150	3,147,529 3,125,346 22,183	41,150 40,814 236
48.247.991 46.028.249 2.219.742 (5.072.650)	(2,652,908) 49,810,143 48,757,235 29,435,416 42,927 46,800,162	(22,743) 48,005,506 48,247,991 2,242,465 Nov-15	44,247,991 46,005,506 2,442,455 (5,072,650) (2,607,650) 49,641,301 47,011,136 29,583,577 47,011,136 47,011,136 47,011,136	2,242,485 2,219,742 22,743	43,143 42,927 216
51,284,900 45,860,541 5,424,359 (5,110,063)	314,296 49,251,629 49,566,125 30,163,944 44,018 49,610,143	(22,799) 45,837,742 51,284,900 5,447,150	51,264,900 45,837,742 5,447,153 (5,110,65) 337,095 49,787,087 30,718,087 30,718,087 44,214 49,841,301	5,447,158 5,424,359 22,799	44,214 44,018 196
50,702,234 47,377,603 3,324,631 (5,375,270)	(2,050,639) 51,234,324 49,183,685 30,672,681 44,731 49,228,416	(11.36) 47.366.223 50,702.234 3,336,011	50,702,234 47,365,223 3,335,011 (2,575,270) (2,575,270) (2,575,270) (3,570,570) 49,391,669 30,796,792 44,811	3,336,011 3,324,631 11,380	44,911
Aug.15 52.792.780 49.462.250 3.330.530 (5.577.653)	(2,247,123) 53,446,938 53,446,938 31,994,349 46,615 51,246,428	(72,760) 49,439,490 52,782,780 3,353,290	22,792,700 49,439,490 3,533,200 (2,537,653) (2,527,653) 53,620,614 51,398,252 22,077,402 46,780	3,353,290 3,330,530 22,760	48,780 48,615 165
51,226,633 47,281,491 3,945,142 (5,301,934)	(1,356,792) 54,740,597 53,383,805 33,028,599 48,184 53,431,969		51,226,633 47,259,072 3,967,561 (1,5301,934) (1,334,373) 54,081,773 53,557,339 33,125,783 48,308 53,667,647	3,967,561 3,945,142 22,419	48,308 48,184 144
48.047,584 41,994,944 6,052,640 (3,665,156)	2,367,484 52,304,205 54,691,689 32,681,896 47,661 54,739,350	(21,810) 41,973,134 48,047,584 6,074,450	46,047,544 41,873,134 6,074,450 (3,665,156) 2,605,734 52,433,308 54,842,680 32,767,474 47,786 54,890,466	6,074,450 6,052,640 21,810	47,786 47,661 125
May-15 48,552,827 43,533,632 5,019,195 (5,401,784)	(382,589) 52,627,239 52,244,850 32,033,118 46,715 52,291,365	(11,645) 43,521,887 48,552,827 5,030,840	48,552,027 43,521,997 5,030,040 (3,401,784) 52,744,665 52,373,721 32,108,411 46,825 52,420,546	5,030,840 5,019,195 11,645	46,825 46,715 110
Apr-16 45,101,204 42,125,471 2,875,733 (5,327,198)	(2,351,465) 54,910,779 52,559,314 32,826,740 47,872 52,607,386	(15,491) 42,113,860 45,101,204 2,987,224 Apr-15	45,101,204 42,113,980 2,887,224 (2,527,189) (2,527,189) 55,018,614 52,616,640 32,84,604 47,972 52,724,612	2,987,224 2,975,733	47,972 47,672 100
Mnr-15 46,586,807 42,716,788 3,880,118 (5,192,949)	(1,312,830) 56,170,976 54,656,146 33,915,645 49,458 54,907,604	(11,909) 42,704,879 46,596,907 3,892,028	46,596,907 42,704,879 3,892,028 (5,1300,921) (1,300,921) 54,804,813 54,804,813 34,974,806 49,547 55,013,439	3,892,028 3,880,119 11,909	49,547 49,458 89
65.PREVIOUSLY STATED 11 Monthly Target Revenue 12 Recorded Adjusted Revenue 13 L1 - L2 Target vs. Audil Revenue 14 Revenuel of Previous Year Account	15 L4 - L13 Ner RBA Change Beginning RBA Balance L7 L8 - L5 End Bahare Beiove interest L8 L8 - L73 - 2 + [1] Bahare Belove interest L9 L8 - L73% + 12 Interest L10 L7 - L9 Ending RBA Balance L10 L7 - L9 Target vs Actual Difference:	Richord Abstance to concer the Revised Revenues Target Target	L1 Recorded Adjusted Revenue L2 Recorded Adjusted Revenue L4 Recorded Adjusted Revenue L4 Revenue L4 Revenue Inget vs. Actual Revenue L4 Revenue Inget vs. Actual Revenue L5 L4+13 Net RBA Change L6 Beginning RBA Balance L7 L6 + L5 Fry Balance Before interest L8 L5 1,754, 12 Interest L9 L8 1,754, 12 Interest L10 L7 + L9 Ending RBA Balance	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	Revised Interest interest Recorded Adjustment to Interest

HAWADAN ELECTRIC COMPANY, INC. MAR 2018 ADJUSTWENT - MESCELLANEOUS CUSTOMER BILLINO ADJUSTMENTS	RACKER
	REVENUE BALANCING ACCOUNT - REVENUE TRACKER

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AS PREVIOUSLY STATED		Mar-14	Apr-14	May-14	Jun-14	AN-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-16	Feb-15
5	Monthly Target Revenue	44,129,429	42,712,829	45,081,776	48,725,408	50,451,219	52,004,410	49,933,476	50,508,746	47,517,340	47,517,340	46,596,907	5
-2	Recorded Adjusted Revenue	4D:445,741	39,688,701	41,328,528	43,277,375	45,000,584	46,563,665	45,456,690	46, 193,858	41,003,481	42,808,981	41,131,344	38,968,462
27.17	Target vs. Actual Revenue	3,683,689	2,624,228	4,655,250	5,448,033	4,550,835	5,440,794	4.476,777	4,314,890	4,483,879	4,708,379	5,485,560	2,798,173
	Reversal of Previous Year Approal	(3,910,640)	(1,673,501)	(4,150,513)	(5,518,592)	(5,958,735)	(6,117,873)	(6.024.188)	(6,133,238)	(5.514,770)	(5, 430, 235)	(5,141,778)	(4 873 418)
u.1 2	Net RBA Change	(226,952)	(1,049,273)	494,737	(70,569)	(1,408,100)	(677,079)	(1,547,411)	(1,818,348)	(1,030 891)	(721,858)	323,787	(2,077,243)
9	Beginning RBA Batance	64,830,562	64,700,876	83,860,874	64,2:2,547	2 8 8	62, 860, 842	62,287,427	80,848,258	59,205,801	58,455,031	57,781,568	26,179,65
17 B 15	End Balance Batore Interest	64,603,610	60,651,603	64,155,811	64,141,988	62, 793, 063	62,183,763	60,720,018	59,029,912	58 174 910	57,733,175	58,115,356	56, 102, 651
	Balance Subject to Interest	64,717,086	64,176,239	39,041,545	39,205,893	38,789,775	38,154,875	37,568,514	36,616,787	35,653,038	35,489,687	35,403,770	34,007,603
-	110.00	94,379	93,590	56,036	57,175	88°5'88	55,701	54,785	53,389	52,287	51,758	51,630	20,007
_	Endry RBA Batance	686,790,480	63,745,193	64,212,547	64, 199, 163	62,849,631	62,239,464	60 774 801	59,083,311	58 227 197	57,784,931	58,166,696	56,153,558
	Target vs Actual Deference.	10 445 741	79 R88 771	41 726 526	43 277 375	45 800 584	48.563.655	45,456,639	46,193,856	43,033,461	42,808,961	41,131,344	39,969,462
	Billion Adustments	100			(19,308)	(8,765)	(8,765)	(8,785)	(8,785)	(9.229)	(10,047)	(10,037)	(10,036)
	Revised Revenues	40,445,741	39,688,701	41,328,526	43,258,067	45,691,819	48,554,690	45 447 934	48,185,001	43,024,232	42,788,914	41,121,307	38,958,426
	Tarpet	44,120,429	42 712 920	45,961,776	48,723,40B	4 550 400	5,440,550	49 655 470	4 323 655	4 493 108	4 758 426	5 475 600	2 808 309
		ļ			<u>.</u>								
AS REVISED		Mar-14	Apr-14	May-14	Jun-14	\$1-30E	Aug-14	Sop-14	Oct-14	Nov-14	Dec-14	Jan-15	Fob-16
 -	O game I office A	44 170 470	40 712 008	45 081 778	48 775 408	50.451.219	52 004 449	49,933,478	50.508,746	47,517,340	47,517,340	46,596,907	41,784,635
3 2	Recorded Actuated Revenue	40,445,741	39 888 701	41,326,528	43,258,087	45,891,819	46,554,890	45,447,934	46, 185,001	43 024 232	42,798,914	41,121,307	38,958,428
13 2:	Tarpet vs. Actual Revenue	3,683,688	2,824,228	4,655,250	5,467,341	4,559,400	5,449,559	4,485,542	4,323,655	4,493,108	4,718,428	5,475,600	2,806,209
	Reversal of Previous Year Accrual	(3,810,640)	(3,873,501)	(4,160,513)	(5,518,592)	(5,856,735)	(6,117,873)	(6,024,188)	(6,133,236)	(5,514,770)	(5,430,235)	(5,141,776)	(4,873,416)
ពៈរ ទ	Net RBA Change	(228,952)	(1,049,273)	484,737	(6,10)	(3.397,335)	(606,314)	2000000	(100,000,1)	200.20	CO 5 (0.00)	53.024 57 MR 460	(A, (O), A)
	Beginnerg RBA Balance	64,830,562	9/9/90/99	63,680,874	12,212,00	20,210,400	07,000,000	84,354,323 RD 785,680	50,083,930	58.718.R40	57.807.014	58, 189, 282	56 196 695
() (B.C.)	tind balance Belone interest Dalance Subject to Interest	64.717.085	176 230	39 04 3 545	39.211.790	38 804 253	39.214.721	37,501,733	36 647,382	35,890,057	35,531,727	35,451,981	34 961 989
	Interest	94,379	93,590	86,936	57, 184	56,590	55,730	54.821	53,444	52,340	51,817	51,701	50,996
	Ending RBA Balance	64,697,989	63,745,193	64,212,547	64,218,480	62,677,735	62,276,382	105,029,09	59,137,821	58,290,989	57,858,831	58,250,993	58,247,681
					!			•				200	9
	Revised Adjustment to Revenue	3,683,688	2,624,228	4,655,250	5,467,341	4 559 400	5,449,559	4 478 777	4,323,055	4 483 879	970 907	5.485.583	2.786.173
	RBA Adjustment Recorded to Revenue	3,663,566	7,624,220	P. 000,200	2,440,033	200,000	La Control	302.0	200,4	o to to	200	1001	10.00
	Adjustment to Revenue	•		•	SUP.	8	8	ĝ.	3	877' .	Š	Ì	
	Revised Interest	94,379	93,590	56,036	57,184	26,580	55,730	54.823	53,444	52,340	51,817	51,701	50,686
	Interest Recorded	94.379	93,590	56,838	57.175	88,98	55.703	54,785	53,399	52,287	51,758	51,630	6000
	Adjustment to interest		•		•	7	ē	8	r	3	5	•	?

Note (1) in control with Decision and Octor No. 31908 on Schoolde A of the Decouping Investigation, issued on February 7, 2014, the Company received on April 20, 2014 from the Internal Revenue Service to charge 5s sat treatment of RBA freenues from the processor (TRBA) revenue recognition to a recognition method based on when rates are adjusted and revenues are collected, all and and a free to the capturation. The cabturation control to a recognition method based on when rates are adjusted and revenues are collected, all and and a free to the cabturation of the cabturation based on a net-of-income tax RBA behaves, and the cabturation are capturated based on when rates are adjusted and revenues tax and are capturated to the cabturation and are capturated to the capturate of the capturated based on when rates are adjusted and revenues tax and are capturated to the capturated based on when rates are adjusted and revenues tax and are capturated based on the capturated on the capturated based on when rates are adjusted and revenues tax and the capturate tax and the capturated based on the capturated based on the capturated based on the capturated based on the capturate and the capturate tax and the capturated based on the capturated based on the capturated based on the capturated on the capturated based on the capturated based on the capturated
Note [2] Totals may not add exactly due to rounding

Note (3)
The Company recorded adjustments to the RBA related to miscotaneous customer biffing adjustments that were processed in March 2018. The Company recorded adjustments, based on the befing adjustments in the prior months incurred.

NECOMP-8-004 HAWADAN ELECTRIC COMPANY, INC. MAR 2016 ADJUSTWENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

	Toulland Sousiment (123.827)	I okal RBA Adustment 123,827	Josephieres, Adustmen, 1,698
Forb-18	42, 407, 228 4, 454, 1002, 431 1, 002, 431 44, 879, 034 44, 879, 034 44, 879, 034 1, 002, 431 1, 002, 432 1, 002, 432 1, 002, 632 1, 002,	1,002,431	38,478 112
Jan-18	47,308,677 49,253,334 46,524,357] (4,526,014) 46,028,941 47,528,947 47,233,334 47,233,334 47,233,334 47,233,334 47,233,334 47,233,334 47,234,337 47,233,334 47,234,337 47,234,33	4,075,343	39,921
Dec-16	48,247,991 46,122,845 47,123,446 48,800,320 49,800,320 40,814 45,022,845 45,122,845 45,122,845 45,122,845 45,122,845 46,122,845 47,122,845 48,277,891 51,122,845 48,277,891 51,122,845 48,277,891 51,122,845 48,277,891 51,122,845	3,125,348	40,914
Nov-15	48,247,001 46,247,001 46,002,240 46,002,245,410 46,002,245,410 46,002,240 46,	2,219,742	43,038 42,927 111
\$1:45G	51,284,000 51,284,000 (5,110,002) (5,110,002) (5,12,139 (4,018 (5,12,139 (5,	5,424,359	44,130 44,018 112
3es-16	50,702,234 7,377,603 51,274,274 51,274,234 61,123,635 30,672,234 30,777,603 41,377,603 50,702,234 50,702,	3,324,631	44,842 44,731 111
Avg-15	62,792,780 1,305,580 1,305,580 1,305,580 1,106,817 1,106,317 1,064,780 1,106,402 1,306,402,780 1,306,580 1,307,284	3,330,530	46,728 46,615 111
21-4-U	51,226,633 3,645,142 3,645,142 (1,50),934 (1,50),934 (1,50),934 (1,20),934 (1,20),934 (1,20),934 (1,20),934 (1,30),9	3,945,142 3,945,142	48,275 48,164 111
31-mvr	48,047,584 41,994,944 52,304,746 52,304,746 54,691,689 54,691,689 54,739,350 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,694,944 41,775 54,616,1587 54,616,1	6,052,640	277,74 47,063 111
May-15	46,552,827 40,533,832 40,533,832 40,775 40	5,029,230 6,019,195 10,035	48,821 48,715 106
APL-15	45, 101, 204 42, 125, 471 (5, 327, 198) (5, 327, 198) (6, 331, 459) (6, 331, 459) (6, 331, 459) (6, 331, 459) (10, 204) (10, 204) (2, 42, 115, 439) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 429) (2, 431, 439) (2, 431, 439)	2,985,789 2,975,733 10,036	47,970 47,872 98
Mar-18	46,580,007 3,860,110 56,172,786 51,312,800 56,176,780 42,746,780 43,744 41,740 4	3,890,156 3,880,119 10,007	49,546 49,458 88
AD PREVIOUSLY STATED	Horithy I signt Revenue Recorded Activated Revenue Recorded Activated Revenue Reversal of Provious Year Actual Revenue Reversal of Provious Year Actual Revenue (Ja + L) > 2 + [1] Bainnee Bullore Interest (Ja + L) > 2 + [1] Bainnee Bullore Interest (Ja + L) > 2 + [1] Bainnee Bullore Interest (Ja + L) > 2 + [1] Bainnee Bullore Interest (Ja + L) > 2 + [1] Bainnee Bullore Interest (Ja + L) > 2 + [1] Bainnee Bullore Interest (Ja + L) > 2 + [1] Bainnee Bullore Interest (Ja + L) > 2 + [1] Bainnee Bullore Interest (Ja + L) > 2 + [1] Bainnee Bullore Interest Reversal of Provious Revenue Reversal of Provious Yearnee Reversal of Provious Yearnee (Ja + L) > 2 + [1] Reversal of Provious Yearnee (Ja + L) > 2 + [1] Reversal of Provious Yearnee (Ja + L) > 2 + [1] Reversal of Provious Yearnee (Ja + L) > 2 + [1] Revenue (Ja + L) > 2 + [1] Reversal of Provious Yearnee (Ja + L) > 2 + [1] Reversal of Provious Yearnee (Ja + L) > 2 + [1] Reversal of Provious Yearnee (Ja + L) > 2 + [1] Reversal of Provious Yearnee (Ja + L) > 2 + [1] Revenue (Ja + L	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	Revised interest interest Recorded Adjustment to Interest

HECO-WP-B-005 HAWAIIAN ELECTRIC COMPANY, INC. MAR 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	2	Nov-15	Dec-15	Jan-16	Feb-16	
L1 L2 L3 L1-L2 L4 L5 L4+L3 L6 L7 L6+L5 L8 (L6+L7)+2+[1] L9 L8 x 1.75% + 12 L10 L7+L9	Monthly Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue Reversal of Previous Year Accrual Net RBA Change Beginning RBA Balance End Balance Sefore Interest Balance Subject to Interest Interest Ending RBA Balance	48,247,991 46,028,249 2,219,742 (5,072,650) (2,852,908) 49,610,143 46,757,235 29,435,416 42,927 46,800,162	48,247,991 45,122,645 3,125,346 (4,877,639) (1,752,293) 46,800,320 45,048,027 28,055,078 40,914 45,088,941	47,308,677 43,233,334 4,075,343 (4,634,357) (559,014) 45,088,941 44,529,927 27,374,083 39,921 44,569,848	42,407,239 41,404,808 1,002,431 (4,381,515) (3,379,084) 44,879,617 41,500,533 26,384,817 38,478 41,539,011	
	Target vs Actual Difference: Recorded Adjusted Revenues - Unadjusted Billing Adjustments Revised Revenues Target	46,028,249 (1,693) 46,026,556 48,247,991 2,221,435	45,122,645 (3,546) 45,119,099 48,247,991 3,128,892	43,233,334 43,233,334 47,308,677 4,075,343	41,404,808 - 41,404,808 42,407,239 1,002,431	Total Billing Adjustment (5,239)
AS REVISED		Nov-15	<u>Dec-15</u>	<u>Jan-16</u>	<u>Feb-16</u>	
L1 L2 L3 L4 L5 L4 + L3 L6 L7 L6 + L5 L8 (L6 + L7) + 2 + [1] L9 L8 x 1.75% + 12 L10 L7 + L9	Monthly Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue Reversal of Previous Year Accrual Net RBA Change Beginning RBA Balance End Balance Before Interest Balance Subject to Interest Interest Ending RBA Balance	48,247,991 46,026,556 2,221,435 (5,072,650) (2,851,215) 49,610,143 46,758,928 29,435,933 42,927 46,801,855	48,247,991 45,119,099 3,128,892 (4,877,639) (1,748,747) 46,802,013 45,053,266 28,057,195 40,917 45,094,183	47,308,677 43,233,334 4,075,343 (4,634,357) (559,014) 45,094,183 44,535,169 27,377,285 39,925 44,575,094	42,407,239 41,404,808 1,002,431 (4,381,515) (3,379,084) 44,884,863 41,505,779 26,388,021 38,483 41,544,262	
	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	2,221,435 2,219,742 1,693	3,128,892 3,125,346 3,546	4,075,343 4,075,343	1,002,431 1,002,431 -	Total RBA Adjustment 5,239

Note [1]

In connection with Decision and Order No. 31908 on Schedule A of the Decoupling Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its tax treatment of RBA revenues from the book accrual method of revenue balancing account ("RBA") revenue recognition to a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a net-of-income tax RBA balance, and the following income tax factor is used in the calculation.

Income Tax Factor (1 / 1-tax rate)

1,636929121

Note [2]

Totals may not add exactly due to rounding.

Note [3

The Company recorded adjustments to the RBA related to miscellaneous customer billing adjustments that were processed in March 2016. The Company recalculated the RBA based on the billing adjustments in the pnor months incurred. No interest impact was calculated as the adjustments did not meet the interest recalculation threshold of \$50,000 per the Revenue Balancing Account provision tariff.

HECO-WP-8-08 HAWAIIAN ELECTRIC COMPANY, INC. APR 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED		June-12	July-12	Avg-12	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	Max-13
	Monthly Target Revenue Recorded Adjusted Revenue Repairs vs. Actual Revenue Reversal of Pervious Year Accrual Net RBA Change Registring Respective interest End Balance Beite interest Balance Subject to Interest Interest	43,880,356 37,844,203 6,036,153 (1,546,140) 4,490,013 27,993,304 32,453,311 151,182 32,634,509	45,538,102 40,909,646 4,628,446 (1,611,107) 3,017,269 35,651,778 34,143,143 170,718	46,940,073 41,328,298 5,611,775 (1,679,771) 3,932,493 35,622,493 37,788,485 18,948 39,943,440	45,011,146 39,445,423 5,565,723 (1,569,477) 3,986,246 39,620,231 43,616,477 41,618,354 43,824,568	45,529,707 41,324,162 4,205,545 (1,659,897) 2,545,648 43,824,568 46,370,218 45,697,392 225,487	42,833,187 39,639,632 4,194,563 (1,540,056) 2,654,507 49,250,210 47,922,997 238,615 49,489,625	42,830,375 40,479,114 2,351,261 (1,591,341) 759,080 49,478,878 50,234,756 49,628,818 249,294 50,468,050	42,000,731 36,526,431 3,472,300 (1,499,941) 1,972,359 50,488,050 52,460,409 51,474,227 52,7371 62,717,779	37,645,099 35,028,256 2,616,641 (1,322,999) 1,293,642 52,735,436 54,029,280 54,029,280 54,296,192	42,000,731 39,226,528 2,774,203 2,774,203 1,288,145 54,300,097 55,588,252 54,41,75 54,44,175 55,662,973	40,652,559 38,772,031 1,680,528 (1,493,978) 386,550 56,053,424 56,439,974 56,246,699 281,233	43,783,724 40,347,419 3,418,305 1,626,384) 1,627,921 56,721,208 56,549,129 57,635,169 208,176 58,637,305
	Terget va Actual Diference: Recorded Adjusted Revenues - Unadjusted Reling Adjustments Reling Adjustments Terget	37,944,203 (1,619) 37,842,584 43,860,356 6,037,772	40,909,646 (1,386) 40,908,780 45,538,102 4,629,842	41,328,298 41,328,298 48,940,073 5,611,775	39,445,423 39,445,423 45,011,146 5,565,723	41,324,162 41,324,162 45,529,707 4,205,545	38,638,624 (5,560) 38,633,064 42,633,187 4,200,123	40,479,114 (6,337) 40,472,777 42,630,375 2,357,598	38,528,431 (6,337) 38,522,094 42,000,731 3,478,637	35,028,258 (6,337) 35,021,921 37,645,099 2,623,178	39,226,528 (6,337) 39,220,191 42,000,731 2,780,540	38,772,031 (6,337) 38,765,694 40,652,559 1,886,865	40,347,419 (8,337) 40,341,082 43,763,724 3,422,842
AS.REVISED	•	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13
110 (7.19 11 (17.20 (16.17))-2.4[1] 12 (14.13 13 (14.13 14 (14.13 15 (14.12) 17 (14.13) 18 (14.13) 19 (14.13)	Monthly Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue Reversus of Previous Year Accusal Ref Red Change Reginning Risk Balance End Balance Before Interest Balance Subject to interest Interest Ending RBA Balance	43,980,358 0,777 6,037,772 (1,546,140) 4,491,632 27,993,304 32,494,89 32,539,180 32,539,180 151,186 32,536,132	45.538,102 40,900,200 4,629,042 (1,611,187) 3,016,655 32,654,787 34,145,439 170,727 35,625,514 35,625,514	46,940,073 41,328,298 5,611,775 1,679,771 3,932,504 33,725,518 37,791,518 188,958 39,946,476 39,946,478	45,011,146 38,445,423 5,565,723 (1,569,477) 1,996,246 38,623,287 43,619,513 44,621,399 208,107 43,627,620 3,622	45.529.707 41.324.162 4.205.545 (1.659.897) 2.545.648 43.37.620 46.377.268 45.100,444 225.502 46.588.770 3.087	42,833,187 38,633,064 4,700,123 (1,540,065) (6,598,770 49,7828,837 47,828,844 49,458,431 8,656	42,830,375 40,472,777 2,357,588 (1,591,341) 48,487,532 50,253,749 48,670,640 249,353 50,533,749 15,052	42,000,731 34,522,094 3,478,636 50,503,102 52,461,787 51,462 52,739,259 21,460	37,645,098 35,021,921 2,623,178 (1,322,999) 1,300,179 52,756,918 54,057,096 53,407,007 267,035 54,334,331 27,339	42,000,731 39,220,181 2,780,540 (1,486,048) 1,284,482 54,728,036 55,622,528 54,975,282 274,676 55,897,404	40,652,559 30,765,694 1,026,065 1,693,978) 392,067 56,460,742 56,460,742 58,284,298 281,421 56,762,164	43,763,724 40,341,082 3,422,642 (1,548,384) 1,634,258 57,782,184 55,598,422 57,679,293 288,398 58,598
	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	6,037,772 6,036,153 1,819	4,629,842 4,628,456 1,306	5,611,775 5,611,775	5,565,723	4,205,545	4,200,123 4,184,563 5,560	2,357,598 2,351,261 6,337	3,478,637 3,472,300 6,337	2,523,178 2,616,841 6,337	2,780,540 2,774,203 6,337	1,866,865	3,422,642 3,416,305 6,337
	Revised Interest Interest Recorded Adjustment to Interest	151,196	170,727 170,716	188,958 188,942 16	208,107 206,092 15	225,502 225,487 15	239,644 239,815 29	249,353 249,294 59	257,462 257,371 91	267,035 266,912 123	274,876 274,721 155	281,421 281,233 188	288,396 288,176 220

Note [1] in connection with Decision and Order No. 31908 on Schoolale A of the Decoupling investigation, issued on February 7, 2014, the Company received approval on April 26, 2014 from the Internal Revenue Service to change its tax beatment of RBA revenues from the book account (RBA); revenue recognition in a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordary, starting with May 2014, interest is calculated based on a net-of-shoome has RBA balance, and the following income has factor is used in the calculation.

Note [2] Totals may not add exactly due to rounding.

Note (3)
The Company recorded adjustments to the RBA related to miscellaneous customer billing adjustments that were processed in April 2016. The Company recorded adjustments to the RBA and interest based on the Wiling adjustments in the prior months incurred.

HECO-WP-8-006 HAWAIIAN ELECTRIC COMPANY, INC. APR 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANGNO ACCOUNT - REVENUE TRACKER	EVENUE TRACKER												
AS PREVIOUSLY, STATED		Jun-13	, Aut-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	1m-14	Feb-14	Mnr-14	Apr-14	Max-14
	Monthly Target Revenue Recorded Adjusted Revenue	46,145,218	42,838,783	49,250,622	47,289,315	47,834,122	45,001,122	45,001,172	44,129,429	39,553,044	44,129,429	19, 888,701	45,981,776
7 - 1 - 2	Reversal of Previous Yeas Acquas	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,256)	(3,925,516)	(3,761,214)	(3,910,040)	(3,873,501)	(4.160,513)
	Reginning RBA Batance	58,535,649	60,913,594	61,546,805	63,126,164	64,552,840	65,724,351	66,230,945	66,165,006	66,564,524	64.830,562	64,700,878	63,660,874
12 16 - 15 15 or (16 - 17) - 2 - [1]	End Balance Before Interest Balance Subject to Interest	60,582,453 59,709,051	61,427,816	62,652,252 62,099,528	64,228,909 63,677,537	65,399,392 64,976,116	65,751,980	65,798,007	66,233,478	64,485,260 65,524,692	64,603,610	63,651,603	39,041,545
L9 L8x(6% or 1.75%) + 12 L10 L7 + L9	Interest Ending RBA Balance	298,545	305,853	310,498 62,962,750	318,388	324,881	328,691	330,072	331,046	327,624 64,812,884	94,379	93,590 63,745,193	56,936 64,212,547
	Target va Actual Difference: Recorded Adjusted Revenues - Unadjusted Belind Adjustments	40,290,987	42,838,763	43,680,012	41,908,165	42,572,492	40,870,690	41,176,802	40,155,441	37,871,094 (5.337)	40,445,741	19,888,701	41,326,526
	Revised Revenues	40,284,650	42,838,763	43,680,012	41,902,816	42 572 492	40,870,690	41,172,465	40,149,104	37,864,757	40,445,741	39,682,364	41,322,931
	5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5,860,568	4,940,879	5,570,810	5,368,499	\$,261,630	4,130,432	3,826,657	3,980,325	1,668,287	3,683,688	2,830,565	4,658,845
AS. REVISED		Jun-13	Jul-13	Avg-13	Sep-13	Oct-13	Nev-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	Mnv-14
5	Monthly Target Revenue	46,145,218	47,779,642	49,250,622	47,289,315	47,634,122	45,001,122	45,001,122	44,129,429	39,553,044	44,129,429	42,712,929	45,981,776
3 -11	Recorded Adjusted Revenue Target vs. Actual Revenue	5,850,568	4,940,879	5,570,610	5,386,499	5,261,630	4,130,432	3,628,657	3,980,325	1,688,287	3,683,668	2,630,565	4,658,845
2 C C C C C C C C C C C C C C C C C C C	Revertal of Previous Year Accrual Net RBA Change	1,753,141	514,022	1,105,447	1,109,094	846,552	(4, 102,5003)	(425,258)	(a10,028.t) 64,809	(2,072,927)	(226,952)	(1,042,936)	498,332
	Beginning RBA Batance	58,883,162	60,967,698	61,601,180	63,180,811	64,614,125	65,785,942	66,292,644	66,253,568	66,639,782	64,912,549	64,782,983	63,749,443
	End begins before interest Balance Subject to Interest	59,759,732	61,224,709	62,153,903	63,735,358	65 037 401	65,799,757	66.079,544	66,280,972	65,603,318	64,799,073	64,261,515	39,096,750
L9 L8x(6% or 1.75%) + 12 L10 L7 + L9	Interest Ending RBA Balance	298,799 60,935,103	306,124 61,787,845	310,770 63,017,397	316,677 64,608,562	325,167 65,765,864	328,999 66,142,570	330,398 66,196,641	331,405 66,539,782	328,017 64,894,871	94,499	93,715 63,833,762	57,016 64,304,790
	Decilosed Adiacement C. December	A C R R	928 978	5 570 610	907 991 9	0.96	27 5.1	3 A28 647	201 038 L	1 684 247	1681688	2 830 565	4 658 845
	RBA Adjustment Recorded to Revenue	5,654,231	4,940,679	5,570,610	5,380,150	5,261,630	4,130,432	3,822,320	3,973,988	1 681 950	3,683,686	2,824,228	4,655,250
	Adjustment to Revenue	6,337	,		6,749			6,337	6,337	6,337	į	6,337	3,595
	Revised Interest Interest December	298,799	306,124	310,770	318,677	325,187	328,899	330,398	331,405	325,017	94,498	93,715	57,018
	Adjustment to Interest	254	271	272	289	308	368	326	359	393	120	125	2

HECO-WP-B-006
HAWAIIAN ELECTRIC COMPANY, INC.
APR 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

up 44,725,408 60,45,1210 52,004,440 49,33,478 90,907,46 47,37,30	CING ACC	REVENUE BALANCING ACCOUNT - REVENUE TRACKER												
Recorded Agianted Revenue 43773-409 56,651.51 52,000.44 46,923.64 46,927.14 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.40 47,173.20	TAIED		-tun-14	101-14	A19-14	Sep-14	Oct 14	Nov-14	Dre-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15
Comparison Year Account C515523 C5867735 C517.019 C517.0		Monthy Target Revenue Recorded Adjusted Revenue Tarnet va. Actual Revenue	48,725,408 43,277,375 5,448,033	50,451,219 45,900,584 4,550,635	52,004,449 46,563,655 5,440,794	49,933,476 45,456,699 4,476,777	50,508,746 46,193,856 4,314,890	47,517,340 43,033,461 4,483,879	47,517,340 42,608,961 4,708,379	46,596,907 41,131,344 5,465,563	41,764,635 38,968,462 2,796,173	46,596,907 42,716,788 3,680,119	45,101,204 42,125,471 2,975,733	48,552,827 43,533,632 5,019,185
Reprint RAD. Balance CALCASS 1,14,08,100 (87,121) (134,120) (14,125,121) (14,1		Reversal of Previous Year Accrual	(5,518,592)	(5,956,735)	(6,117,873)	(6,024,158)	(6,133,236)	(5,514,770)	(5,430,235)	(5,141,776)	(4,873,416)	(5,192,949)	(5,327,198)	(5,401,784)
Eurlie Brinner Before trierest 64.141.968 (27.791.961 St. 77.751.75 St. 77.75 St. 77.751.75 St. 77.75 St. 77.751.75 .75 St. 77.751.75 .751.751.751.751.751.751.751.7		Net RBA Change Beginning 884 Balman	(70,559)	(1,406,100)	(577,079) 62,850 Pa2	(1,547,411)	(1,518,346) 60,848,258	59 205 401	58 455 031	57 791 569	58.179.894	56 170 976	54 910 779	52 627 239
State Stat		End Balance Before Interest	64,141,988	62,793,063	62,183,783	60,720,016	59,029,912	58,174,910	57,733,175	58,115,356	56,102,651	54,858,146	52,559,314	52,244,650
Target vs Achal Officience: Revised Revenues 10.337 Revised Revenues 10.337 Revised Revenue 10.337 Revised Adjustment Revenue 10.337 Revised Adjustment Revenue 10.337 10.0368 10.3368 10.337 10.0368 10.337 10.0368 10.337 10.0368 10.337 10.0378 10.337 10.0378 10.337 10.0378 10.337 10.0378 10.0388 10.	= 5	Balance Subject to Interest	39,205,893	36,789,775	38,194,875	37,566,514	38,616,767	35,853,938	15,489,687	35,403,770	34,907,603	33,913,845	32,626,740	32,033,118
Revised Revenue	71 . (4	interest Ending RBA Batance	64,199,163	52,849,631	62,239,464	60,774,801	59,083,311	58,227,197	57,784,931	58,156,986	56,153,558	54,907,604	52,607,186	52,291,365
Revised Revenues		Target va Actual Ofference: Racorded Adjusted Rovenues - Unadjusted Billino Adjustinens	43,277,375	45,900,584	48,583,655	45,456,699	46,193,858	43,033,461	42,808,961	41,131,344	36,968,462	42,716,788	42,125,471	43,533,632
Monthly Target Revenue		Revised Revenues	43,271,036	45,900,584	46,563,655	45,456,699	46,193,856	43,033,461	42,808,961	41,131,344	38,968,462	42,716,788	42 125 471	43,533,632
Monthly Target Revenue 43,725,408 50,451,219 52,004,449 42,033,478 50,508,746 47,517,340 47,517,340 46,5 Recorded Adjusted Revenue 43,717,1034 45,900,584 46,536,585 45,656,99 46,5 Reversal of Perious Yenr Account 45,519,005,84 46,536,585 45,656,99 46,18,19,189 47,031,99 54,40,709 47,500,189 54,40,709 47,500,189 54,40,709 47,500,189 54,40,709 64,520,520 54,40,709 64,20,709 64,20,709 64,20,709 64,20,709 64,20,709 64,20,709 64,20,709 64,20,709 64,20,409 66,19,181 51,000,199 (1,541,41) (1,541,41) (1,501,09) (1,541,41) (1,501,0			5,454,370	4,550,635	5,440,794	4,476,777	4,314,690	4,483,879	4,705,379	5,465,563	2,796,173	3,860,119	2,975,733	5,019,195
Monthly Target Revenue 4,725,408 50,451,219 52,004,449 49,033,478 50,508,746 47,517,340 47,517,340 48,55			4t-unf	Jul-14	Aug-14	Sep-14	91-19	Nov-14	Drc-14	Jan-15	Feb-15	Mar-15	Apr-16	May-15
Target vs. Actual Revenue 5,454,370 4,556,535 5,440,704 4,18,180 4,463,879 4,708,379 5,484,370 1,181,341 1		Monthly Target Revenue Recorded Adasted Revenue	48,725,408	50,451,219	52,004,449 46,563,655	49,933,476	50,508,746	47,517,340	47,517,340	46,596,907	41,764,635	48,596,907	45,101,204	48,552,827
Netretal Change of Terrorus restrictions of CASA (1406,104) (1517,059) (1517,		Target vs. Actual Revenue	5,454,370	4,550,635	5,440,794	4,476,777	4,314,890	4,463,879	4,708,379	5,465,563	2,796,173	3,680,119	2,975,733	5,019,195
Beginning RBA Balance (4, 204, 706 64, 297), 522 6256,526 60,097,1817 51,00 64, 204,056 62 60,097,1817 51,00 64, 204,056 62 62,097,182 62,297,282 52,097,184 52,097,184 52,097,184 52,097,184 52,097,184 52,097,184 52,097,184 52,097,184 52,097,184 52,097,182 52,097 52,097,184 5		Net RBA Change	(5,516,392)	(1,406,100)	(677,079)	(1.547.411)	(1,818,346)	(1,030,691)	(721,856)	323,767	(2,077,243)	(1,312,830)	(2,351,465)	(362,589)
Endoption before time est of ACM 200 0 86.50 0 86.77 0 17.026.00 0 86.77.27 15.51.72		Beginning RBA Balance	64,304,790	64,297,828	62,959,595	62,366,268	60,947,187	59,304,819	56,554,137	57,890,763	58,279,177	56,270,347	55,010,238	52,726,747
Interest Ending RBA Bultance 84,2720 56,656 55,789 54,773 53,488 52,375 51,844 25,852 Ending RBA Bultance 84,272,720 62,442,730 59,182,779 53,484,125 56,284,125 56,284,125 56,284,125 56,284,125 56,284,125 56,284,125 56,284 54,784,777 5,314,890 5,483,879 5,484,125 56,284 54,784,777 5,314,890 5,483,879 5,784,126,379 5,440,784 57,785 51,78	_	End Balance beloe mierest Balance Subject to Interest	39,264,160	36,850,050	36,255,203	37,626,696	36,677,223	35,914,428	35,550,231	35,464,368	34,968,255	33.974.551	32,687,499	32,093,932
5,454,370 4,550,635 5,440,794 4,476,777 4,314,890 4,463,879 4,708,379 5,48,633 4,550,635 5,440,794 4,476,777 4,314,890 4,483,879 4,708,379 5,48,633 4,550,635 5,440,794 4,476,777 4,314,890 4,483,879 4,708,379 5,789 5,789 54,873 53,488 52,375 51,944 51,775 56,588 55,701 54,785 53,399 52,287 51,789	¥) - 12	Interest Ending RBA Balance	57,260 64,297,828	55,556 62,948,384	55,789 62,338,305	54,873,730 60,873,730	53,488 59,182,329	52,375 58,328,303	51,844 57,884,125	51,719 58,266,269	50,995 56,252,929	49,546 55,007,063	47,961 52,706,734	46,804 52,391,002
ue 5,446,033 4,550,635 5,446,794 4,478,777 4,314,880 4,483,879 4,708,379 5, 6,337 6,356,56 55,789 54,873 53,488 52,375 51,844 57,775 56,568 55,701 54,785 33,399 52,287 51,756		Revised Adjustment in Revenue	5.454.370	4.550.635	5,440,794	4,476,777	4,314,890	4.483.879	4,708,379	5,465,563	2,796.173	3,880,119	2.975,733	5,019,195
57,260 56,56 55,789 54,873 53,488 52,375 51,944 57,75 54,785 55,701 54,785 55,399 52,287 51,759		RBA Adjustment Recorded to Revenue Adjustment to Revenue	5,448,033	4,550,635	5,440,794	4,476,777	4,314,890	4,483,879	4 708 379	5,465,563	2,796,173	3,680,119	2,975,733	5,019,195
57,260 56,656 55,789 54,873 53,486 52,375 51,844 d 57,175 56,586 55,701 54,785 53,399 52,287 51,759														
		Revised Interest Interest Reported	57,260	56,656 88,888	55,789	54,785	53,486	52,375	51,844	51,719	50,995	49,546	47 961	46,804
88 89 88 88		Adjustment to Interest	88	23	8	8	62	2	28	68	28	82	69	63

HECO-WP-8-006 HAWAIIAN ELECTRIC COMPANY, INC. APR 2018 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

			Advisiment. (107,221)		Total RBA Advisiment 107,221	Total Interest. Advistment. 6.012
	Mar-16	47,308,677 43,945,263 3,303,414 (3,548,813) (1,185,399) 41,669,775 40,444,376 25,039,885 40,520,871	43,945,263 43,945,263 47,308,677 3,383,414	Marcis 47,308,677 43,945,263 3,363,414 (1,548,013) (1,155,399) 41,782,309 41,782,309 25,10 26,694,206	3,363,414	36,696
	Feb-16	42.407,239 41,404,808 1,002,431 (4,381,515) (3,379,084) 44,879,817 26,384,817 38,478 41,539,011	41,404,808 (6,336) 41,398,472 42,407,239 1,008,767	Feb.18 42,407,239 41,308,472 1,003,767 (4,341,515) 44,986,318 41,613,589 28,413,989 38,576 41,652,145	1,008,767 1,002,431 6,336	38,576 38,478 98
	Jnn-18	47,308,677 4,273,334 4,075,343 (559,014) 15,088,941 14,529,827 27,374,083 39,921 44,569,040	43,233,334 43,233,334 47,308,677 4,075,343	47, 204, 677 47, 204, 677 44, 757, 543 46, 758, 543 46, 195, 547 46, 795, 543 46, 795, 543 46, 795, 543 46, 795, 543 46, 795, 795 46,	4,075,343	40,016 39,921 95
	Dec-15	44,247,991 45,122,645 3,125,346 (4,877,639) (4,877,639) 45,048,027 28,055,078 45,048,427 28,055,078	45,122,645 45,122,645 48,247,991 3,125,346	Dre-1g 48,247,891 48,122,648 3,122,648 (4,877,553) (4,877,553) 46,906,831 45,195,130,145 41,009 45,195,547	3,125,346	41,009 40,914 95
	Nov-15	46,247,391 46,026,349 2,219,742 (5,072,650) (2,072,650) (3,072,650) (3,072,650) (4,072,723 46,757,235 46,757,235 46,757,235 47,235 46,757,235 4	46,026,249 (6,337) 48,021,912 48,247,991 2,226,079	A8,247,891 46,021,912 2,226,079 (5,072,850) (5,072,850) (5,072,850) (5,072,850) (5,072,850) (5,073,854) (4,012,854) (4,013,491,491) (4,013,491,491) (4,013,491,491)	2,226,079 2,219,742 6,337	43,019 42,927 92
	Oct:15	51,284,900 45,860,541 5,424,359 (5,110,063) 314,296 49,566,125 30,183,944 44,018 49,610,143	45,850,541 45,850,541 51,284,900 5,424,359	0ct-18 51,284,990 45,605,41 51,424,359 (5,110,083) 31,426 49,516,110 44,107 44,107 49,710,225	5,424,359	44,107 44,018 89
	Sep-15	50,702,234 41,377,603 3,324,631 (5,375,270) (5,375,270) (5,256,324,324 49,183,685 30,672,681 44,731 49,228,416	47,377,603 47,377,603 50,702,234 3,324,631	\$6,702.234 47,377,00 3,324,631 51,334,623 51,334,623 64,283,569 44,820 44,820 44,820 44,820 44,820 44,820 44,820	3,324,631	44,620
	Aug-15	52,792,780 49,462,250 3,330,530 (2,547,63) 51,46,33 51,199,81 31,96,13 46,61 51,246,428	49,462,250 49,462,250 52,792,780 3,330,530	Aug-16 52,792,780 1,330,530 1,330,530 (5,577,831) (5,577,831) (5,577,831) 53,546,731 51,289,828 46,704 51,346,332	3,330,530	46,704 46,615 89
	141-15	51,226,633 47,281,481 3,945,142 (5,301,934) (1,356,792) 54,742,635 53,383,805 53,383,805 48,164 53,431,969	47,281,491 47,281,491 51,226,533 3,945,142	31,226,633 47,201,491 3,945,142 (3,301,394) (3,301,394) (3,301,394) 53,483,531 30,483,531 46,293,531 46,293,531 53,531,784	3,945,142	48,164 48,164
	4m 15	46,047,584 41,894,944 6,052,640 (3,665,146) 2,337,484 52,304,205 54,691,689 32,691,689 32,691,689 47,681	41,994,944 41,994,944 48,047,584 6,052,840	48,047,584 41,047,584 61,052,640 (3,655,159) 2,347,444 52,403,84 32,403,84 47,750 47,750 54,839,076	6,052,640 6,052,640	47,750
COUNT - REVENUE TRACKER		Monthly Terget Revenue Recorded Adjusted Revenue Terget vs. Actual Revenue Reversa of Pervious Year Accural Reversa of Pervious Year Accural Reversa of Pervious Year Accural Reversa of Pervious Year Accural Reversa of Pervious Year Accural Beginning RBA Balance End Balance Before Inferest Balance Subject to Interest Ending RBA Balance	Target vs Actual Difference: Recorded Adjustments - Umadjusted Billing Adjustments Revised Revenues Target	Monthly Target Rovenue Recorded Adjusted Revenue Recorded Adjusted Revenue Reversal of Previous Year Accrual Net RBA Change End Balance Before Inferest End Balance Before Inferest Balance Subject to Interest Interest Ending RBA Balance	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	Rovbac Interest Interest Recorded Adjustment to Interest
REVENUE BALANCING ACCOUNT - REVENUE T	AS PREVIOUSLY STATED	L1 L1-L2 L2 L1-L2 L3 L1-L2 L4 L3 L4-L3 L6 L4-L3 L6 L6-L5 L7 L6-L5 L9 L8-L6 L9 L8-L8 L10 L7-L8		A\$ REVISED L1 L2 L3 L1-L2 L4 L4-L3 L6 L6-L5 L7 L6-L5 L7 L9 L8 L6+L7 L9 L9 L9 L9 L9 L9 L9 L9 L9		

HECO-WP-B-007 HAWAIIAN ELECTRIC COMPANY, INC. MAY 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED		Feb-16	<u>Маг-16</u>	Apr-16	
L1 ·	Monthly Target Revenue	42,407,239	47,308,677	45,793,747	
L2	Recorded Adjusted Revenue	41,404,808	43,945,263	42,792,611	
L3 L1-L2	Target vs. Actual Revenue	1,002,431	3,363,414	3,001,136	
L3	Reversal of Previous Year Accrual	(4,381,515)	(4,548,813)	(4,608,612)	
L5 L4 + L3	Net RBA Change	(3,379,084)	(1,185,399)	(1,607,476)	
L6	Beginning RBA Balance	44,879,617	41,669,775	40,634,204	
L7 L6+L5	End Balance Before Interest	41,500,533	40,484,376	39,026,728	
L8 (L6 + L7) + 2 + [1]	Balance Subject to Interest	26,384,817	25,093,985	24,332,432	
L9 L8 x 6% + 12	Interest	38,478	36,595	35,485	
L10 L7+L9	Ending RBA Balance	41,539,011	40,520,971	39,062,213	
C10 E7 + E9	Entitly Non balance	41,555,011	40,320,871	33,002,213	
	Target vs Actual Difference:				Total_Billing
	Recorded Adjusted Revenues - Unadjusted	41,404,808	43,945,263	42,792,611	<u>Adjustment</u>
	Billing Adjustments 1	(11,035)		•	(11,035)
	Billing Adjustments 2	(3,142)	(851)	-	(3,993)
	Revised Revenues	41,390,631	43,944,412	42,792,611	(15,028)
	Target	42,407,239	47,308,677	45,793,747	
		1,016,608	3,364,265	3,001,136	
AS REVISED		Feb-16	Mar-16	Apr-16	
L1	Monthly Target Revenue	42,407,239	47,308,677	45,793,747	
L2	Recorded Adjusted Revenue	41,390,631	43,944,412	42,792,611	
L3 L1-L2	Target vs. Actual Revenue	1,016,608	3,364,265	3,001,136	
L4	Reversal of Previous Year Accrual	(4,381,515)		(4,608,612)	
L5 L4 + L3	Net RBA Change	(3,364,907)		(1,607,476)	
L6	Beginning RBA Balance	44,879,617	41,683,957	40,649,250	
L7 L6 + L5	End Balance Before Interest	41,514,709	40,499,409	39,041,774	
L8 (L6 + L7) + 2 + [1]	Balance Subject to Interest	26,389,147	25,102,909	24,341,623	
L9 L8 x 6% + 12	Interest	38,484	36,608	35,498	
L10 L7 + L9	Ending RBA Balance	41,553,193	40,536,017	39,077,272	
	Revised Adjustment to Revenue	1,016,608	3,364,265	3,001,136	Total RBA
	RBA Adjustment Recorded to Revenue	1,002,431	3,363,414	3,001,136	Adjustment
	Adjustment to Revenue	14,177	3,363,414	3,007,130	15,028
	Adjustinent to Revenue	14,177	931	•	13,020

Note (1)

In connection with Decision and Order No. 31908 on Schedule A of the Decoupling Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its tax treatment of RBA revenues from the book accrual method of revenue balancing account ("RBA") revenue recognition to a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a net-of-income tax RBA balance, and the following income tax factor is used in the calculation.

Income Tax Factor (1 / 1-tax rate) 1.636929121

Note [2]

Totals may not add exactly due to rounding.

Note [3]

The Company recorded adjustments to the RBA related to miscellaneous customer billing adjustments that were processed in May 2016. The Company recalculated the RBA based on the billing adjustment in the prior months incurred. No interest impact was calculated as the adjustment did not meet the interest recalculation threshold of \$50,000 per the Revenue Balancing Account provision tariff.

HECO-WP-B-008 HEVINDAN ETRIC COMPANY, INC. HEVINDAN ETRIC CHRIST CHRIST CONTRE RILLING ADJUSTMENTS JUN 2018 ADJUSTMENT - KRSCELLANEOUS A. I.B. G. FITE CHANGE CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED		Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12
5	Monthly Target Revenue	38 452 740	35 681.973	37.812.917	39.048.559	41,350,321	45.898.046	44 070 248	44.577.970	41 937 817	41.937.817	41,125,462	36,860,599
- 1	Recorded Adjusted Reserve	37 206 214	35 823 429	37, 102, 931	36,409,589	38,728,938	38 465 482	36 365 130	38,799,920	38,574,222	39,961,425	39 527 599	37,356,068
ส-ม ถ	Target vs. Actual Revenue	(753,474)	(141,456)	709,988	2,636,970	2,621,383	7,412,584	5,685,118	5,778,050	5,363,595	1,978,392	1,597,863	(495,469)
	Revertal of Prevents Year Acoust		. :	. !				. !		. :	. !		
	Net With Change	(193,474)	(96 - 1 - 1)	103,966	7,636,970	2.021,363	417,504	0.000	00.071,0	5,363,383	760 076	CDD, / RC, I	(402,402)
	Beginning RBA Balance	• '	(937.054)	(983,048)	(278,202)	2,365,980	5,005,748	12,445,972	18,207,533	24,035,403	18,705,434	20,750,294	22,486,053
	End Balance Betore Interest	(753,474)	(978,510)	(273,062)	2 380 /88	4,967,363	12,418,310	16 131 090	23,965,563	29,398,998	20 681 828	72 1/6 3/	21,990,584
	Balance Subject to Interest	(76,976)	(907,782)	(628,055)	1,042,283	3,676,672	8,712,028	15,208,531	21,098,556	26,717,201	19,693,630	21,579,228	22,238,319
	inter est	(1,684)	(4.539)	(3,140)	5,211	18,383	43,560	76,413	105,483	133,588	98,468	107,898	111,192
C10 L7 - L9	Ending RBA Balance	(755,358)	(983,048)	(276,202)	2,365,980	5,005,746	12,461,870	18,207,533	24,091,066	29,532,584	20,780,294	22,486,053	22,101,776
	Target vs Actual Ofference:												
	Recorded Adjusted Revenues - Unadjusted	37,206,214	35,823,429	37,102,931	36,409,589	38,728,938	38,485,482	38,385,130	38,799,920	36,574,222	39,961,425	39,527,599	37,356,068
	Beling Adustments 1	(244)	. (257)	(258)	, (257)	(258)	. (288)		(223)	. (22)	. 63.5	- 62	(246)
	Revised Revenues	37 205 970	35,823,172	37,102,673	38,409,332	38,728,680	36,485,213	38 384 853	38,789,697	36,574,001	39,961,212	39,527,385	37,355,822
	Target	38.452.740	35,681,973	37,812,917	39,046,559	41,350.321	45,698,046	44 070 248	44,577,970	41,937,817	41,937,817	41, 125, 462	36,860,599
		(753,230)	(141,199)	710,244	2,637,227	2,621,641	7,412,833	5665,395	5,778,273	5,363,816	1,976,605	1,598,077	(495,223)
AS REMSED		Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sept-11	Oct-11	Nov-11	Doc-11	Jan-12	Feb-12
-	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 453 740	15.681.073	27 617 617	10 046 650	10,150,131	216 858 546	44 070 348	44 577 070	718 750 14	41 617 117	277 363 57	16 88A 500
: 3	Recorded Adjusted Revenue	37.205.970	35.623.172	37,102,673	36 409 332	38,728,680	36.485.213	38.384.653	38,799,697	36.574.001	39.961.212	39.527.385	37,355,822
2:10	Tarpet vs. Actual Revenue	(753,230)	(141,199)	710,244	2,637,227	2,621,641	7,412,633	5,665,395	5,778,273	5,363,816	1,978,605	1,598,077	(485,223)
3	Reversal of Previous Year Accrual	•			٠		•		•	•			
u. v.	Net RBA Change	(753,230)	(141,199)	710,244	2,637,227	2,821,641	7,412,633	5 665 395	5,778,273	5,363,516	1,976,605	1,598,077	(485,223)
	Beginning RBA Batance		(836,809)	(982,545)	(275,430)	2,367,005	5,007,035	12,447,537	16,209,363	24,037,486	18,707,749	20,782,834	22,488,820
U. 16+US	End Batance Before Interest	(753,230)	(975,008)	(272,301)	2,361,789	4,988,646	12,419,568	18,132,932	23,987,656	28,401,302	20,664,354	22,380,911	21,993,597
	Balance Subject to interest	(376,615)	(907,408)	(627,423)	1,043,176	3,877,826	6,713,451	15,290,234	21,098,520	26,719,394	19,696,052	21 501 572	22,241,209
L9 L8 x (6% or 1.75%) + 12	Interest	(1,863)	(4.537)	(3,137)	5,218	18,389	43,587	76,451	105,483	133,597	98,480	107,909	111,206
57 · L3	Ending RBA Balance	(755,113)	(982,545)	(275,438)	2,367,005	5,007,035	12,463,435	16,209,383	24,093,149	29,534,699	20,762,834	22,465,520	22,104,803
	Revised Adjustment to Revenue RBA Addustment Devended in Beamus	(753,230)	(141,199)	710,244	2,637,227	2,621,641	7,412,833	5,685,395	5,776,273	5,363,816	1,978,605	1,595,077	(485,223)
	Adjustment to Revenue	544	257	255	257	250	36.	717	223	221	214	214	246
	A COLUMN TO A COLU	i	i	•	İ	ł	į	i	i	į	,		

Note [1] Inconnection with Decision and Order No. 31908 on Schedule A of the Decoupling hivestyabon, issued on February 7, 2014, the Company received approval on April 26, 2014 from the Internal Revenue Schedule at the Categoristic Notes and Control of Company received approval of Company Schedule Schedule Schedule Schedule and Schedule Schedu

theome Tax Factor (1 / 1-tax rate) 1.636929121

Note (2) Totals may not add exactly due to rounding.

Note (3) The Company recorded adjustments to the RBA related to miscellaneous and J to G rate change customer bding adjustments that were processed in June 2016. The Company recorded adjustment is the bding adjustment in the prior months incurred. No interest impact was calculated as the adjustment and not meet the riterest recalculation of \$50,000 per the Revenue Balancing Account provision built.

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HECO-WP-8-408
HAWIAIAN ELECTRIC COMPAINY, INC.
JUN 2016 ADJUSTMENT - MISCELLANEOUS & J IO G RATE CHANGE CUSTOMER BILLING ADJUSTMENTS

AS PREVIOUSLY STATED		Mar-12	Apr-12	May-12	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Fob-13
5 5 5 5 5	Monthly Target Revenue Recorded Adjusted Revenue Terrent of Arthur Demonstra	41,125,462	40,152,722 38,384,038	43,255,064	43,980,356	45,538,102 40,309,646 4,628,458	48,940,073	45,011,148	45,529,707	42,633,167	42,830,375	42,000,731 38,528,431 3,472,300	37,645,099 35,028,258 2,616,041
	Reversal of Previous Year Accrual	790,505,7	3	2001	(1,548,140)	(1,611,187)	(1,679,771)	(1.569,477)	(1,659,897)	(1,540,056)	(1.591,381)	(1,499,941)	(1,322,999)
e1.51	Net RBA Change	2,503,620	1,768,684	1,614,860	4,490,013	3,017,269	3,932,004	3,996,246	2,545,648	2,654,507	759,880	1,972,359	1 293 642
L7 (6+15	Begressig von Balance End Balance Belore Interest	24.235.454	26.123.267	27.858.051	32,483,317	35.651.778	39.754.487	43,616 477	46,370,216	49.250.210	50.236.756	52.460.408	54.029.280
	Balance Subject to Interest	22,988,844	25,237,729	27,050,621	30,238,311	34 (43, 143	37,788,495	41,618,354	45,097,392	47,922,957	49,658,816	51,474,227	53,382,359
L9 L0 = (6% or 1,75%) + 12 L10 L7 + L9	Interest Enders RBA Balance	114,933	26,248,260	135,253	151,192	170,716	188,942	208,092	225,487	239,615	249,294	52,717,371	266,912
	Target va Actual Difference:												
	Recorded Adjusted Revenues - Unadjusted	38,621,642	36,384,038	41,640,204	37,944,203	40,909,646	41,328,298	39,445,423	41,324,162	38,638,624	40,479,114	38,528,431	35,028,258
	Ratho Adustments	1080	. (269)	. (270)	- (289)		. 07.0	. (285)	. (289)	. 1931	. (217)	. (252)	. (272)
	Revised Revenues	38,621,580	38,383,769	41,639,934	37,943,934	40 909 376	41,328,028	39,445,138	41 323 874	36,638,432	40,478,697	38,528,179	35,027,985
		2,503,082	1,768,953	1,615,130	6,036,422	4,620,726	5,812,045	5,566,006	4,205,633	4,194,755	2,351,470	3,472,552	2,817,114
AS REVISED		Mar-12	Apr-12	May-12	June-12	St-You	Aug-12	Sept-12	0ct-12	Nov-12	Dec-13	Cl-net.	Fob-13
5	Monthly Target Revenue	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073	45,011,146	45,529,707	42,033,187	42,830,375	42,000,731	37,645,099
	Recorded Adjusted Revenue	38,621,580	36,383,769	41,639,934	37,943,934	40,909,376	41,328,028	39,445,138	41 323 074	38,638,432	40,478,897	38,526,179	35,027,985
ม: อ	Target vs. Actual Revenue	2,503,882	1,768,953	1,615,130	6,036,422	4,628,726	5,612,045	800,882,3	4 205 833	4,194,755	2,351,478	3,472,552	2,617,114
15 14413	Not RRA Chance	2 503 682	1 768 953	1 615 130	4 4 90 282	3.017.519	3 932 274	1896 531	2.545.836	(1,340,U30)	780.087	1.972.611	1 294 115
: :	Beginning RBA Balance	21,727,861	24,356,692	26,245,752	27,997,184	32,638,678	35,826,953	39,624,983	43 829 830	48,601,079	49,484,471	50,493,691	52 741 561
-	End Balance Before Interest	24,241,743	26,125,645	27,861,912	32,487,466	35,658,216	15,759,227	43,621,514	46,375,566	49,255,778	50,244,568	52,468,501	54,035,676
L8 (L8 + L7) + 2 or (L8 + L7) + 2 + (1)	Balance Subject to Interest	209,699,22	25,241,169	27,054,347	30,242,325	34 147 447	37,793,090	41,623,248	45,102,598	47,928,429	49,684,520	51 480 194	53,358,616
_	meresi Endrig RBA Batance	24,356,692	28,251,851	27,997,184	32,638,678	35,626,953	39,946,193	43,829,630	46,601,079	49,495,420	50,493,891	52,723,902	\$4,302,619
•													
	Revised Adjustment to Revenue	2,503,882	1,768,953	1,615,130	6,036,422	4,628,726	5,612,045	\$,566,00\$	4,205,833	4,194,755	2,351,478	3,472,552	2,617,114
	RBA Adustment Recorded to Revenue	2.503,620	1,768,684	1,614,860	6,036,153	4 628 456	5,611,775	5.565.723	4 205 545	4, 194, 563	2,351,261	3,472,300	2,616,841
	Adjustment to Revenue	282	269	270	269	270	270	285	288	192	217	252	273

HECO-WP-B-008 HAWAIAN ELECTRIC COMPANY, INC. JUN 2018 ADJUSTMENT - MISCELLANEOUS & J D. O. RATE CHANGE CUSTOMER BILLING ADJUSTMENTS

AS PREVIOUSLY STATED		Mar.13	Apr13	Mav-13	Jun-13	, Jul. 13	Aug-13	500-13	25.53	Nov-13	Doc-13	1m-14	Feb. 4
=	Monthly Target Revenue	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622	47,289,315	47,834,122	45 001 122	45,001,122	44,129,429	39,553,044
2	Recorded Adjusted Revenue	39,228,528	38,772,031	40,347,419	40,290,987	42,638,763	43,680,012	41,909,165	42,572,492	40 870 690	41, 178, 502	40,155,441	37,871,094
2-13	Target vs. Actual Revenue	2,774,203	1,050,528	3,416,305	5,054,231	4,040,879	5,570,810	5,380,150	5,261,630	4,130,432	3,622,320	3,973,956	056,159,1
3	Reversal of Previous Year Accrual	(1,458,048)	(1,493,978)	(1,558,384)	(4,107,427)	(4.428.857)	(4,465,163)	(4,277,405)	(4,415,078)	(4 102 503)	(4,255,258)	(3,925,518)	(3,781,214)
15 14 1.13	Net RBA Change	1,268,155	368,550	1,827,921	746.604	514,022	1,105,447	1,102,745	. 846,552	27.629	(432,938)	48,472	(2,079,264)
97	Beginning RBA Balance	54,300,097	56,053,424	56,721,206	58,835,649	60,913,594	61,548,805	63,126,164	64,552,840	65,724,351	66,230,945	66,185,006	66,564,524
17 18 15	End Balance Before Interest	55,568,252	58,439,974	58,549,129	60,582,453	61,427,618	62,652,252	64,228,909	65,399,392	65,751,980	65,798,007	66,233,478	84,485,260
	Batance Subject to Interest	54.944.175	58.246.699	57,635,169	59,709,051	61 170 605	62,099,528	63,677,537	64,976,116	65,738,165	68,014,476	66,209,242	65,524,892
	hierest	274,721	281,233	268,176	298,545	305 653	310,498	318,388	324,881	328,691	330.072	331,046	327,624
	Ending RBA Batance	55,662,973	56,721,208	56,637,305	60,880,999	61,733,470	62,962,750	64,547,297	65,724,273	66,080,671	66,128,079	66,564,524	64,612,684
	Farget vs Actual Difference: Recorded Adusted Revenues - Unadjusted	39.226.528	36,772,031	40,347,419	40,290,987	42,638,763	43,680,012	41,909,165	42,572,492	40 670 590	41,178,802	40,155,441	37,871,094
		•											
	Baling Adjustments	(270)	(279)	(273)	(285)	(285)	(288)	(287)	(243)	(201)	(200)	(241)	(212)
	Revised Revenues	39,226,258	28,771,752	40,347,146	40,290,702	42,838,478	43,679,726	41,908,898	42,572,249	40 970 489	41,178,594	40,155,200	37,870,882
	Farget	7 774 473	1,640,807	3.416.578	5.654.516	4 941 164	5.570 896	5 380 417	5.261.873	4 130 633	3 822 528	3974.229	1 682 162
		;										<u> </u>	
			Ì	ľ		}			-				
AS REVISED		Mar-13	Apr-13	May-13	Jun-13	JUE13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Fob 14
:	Managhta Toward Dansers	162 0000 67	40.852 559	407 787 734	46 145 218	47 770 643	49 250 022	47 280 115	21 124 127	45,001 133	45.001.122	007 007 777	19 551 644
::	Decorded Adverted Decorded	19.736.758	14 771 752	40 747 148	40.200.203	47 878 7.8	41 R79 728	41 903 808	47 577 249	40 870 489	11 72 94	40 155 200	17 R 70 R 82
27.5	Toront on Actual Resease	2 774 473	1 840 807	3416578	5.654.516	4 941 164	5.570,896	5 360 417	5 261 873	4 130 833	3 822 528	3 974 229	1 662.162
;	Reversal of Previous Year Accrual	(1,468,048)	(1,493,978)	(1,585,384)	(4, 107, 427)	(4.428.857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,603)	(4.255.258)	(3.925,516)	(3,761,214)
2.5	Net RBA Chance	1,268,425	386,829	1,828,194	1 747 089	514 307	1,105,733	1,103,012	648,795	27 830	(432,730)	48,713	(2,079,052)
	Beginning RBA Batance	54,308,524	58,060,153	56,728,251	58,843,001	60,921,270	61,554,605	63,134,490	64,561,474	65,733,271	66,240,111	66,194,427	68,574,234
17 16 - 15	End Balance Before Interest	55,594,948	56,446,982	58,556,445	160,065,09	61,435,577	62,660,538	84,237,502	65,408,269	65,761,101	65,607,381	66,243,140	64,495,182
	Salance Subject to Interest	54,950,736	56,253,568	57,642,348	59,716,546	61 178 124	62,107,571	63,685,996	64.984.872	65 747 166	66,023,748	68,218,783	65,534,708
L9 L8 x (6% or 1.75%) + 12	interest	274,754	281,288	268.212	298,563	305,892	310,538	318,430	324,924	328,738	330,119	331.094	327,674
110 L7+19	Ending RBA Batance	55,869,702	56,728,251	55,844,657	60,888,675	61,741,470	62,971,076	64,555,931	65,733,193	66,089,837	66,137,500	66,574,234	64,822,856
	Revised Adjustment to Revenue	2,774,473	1,850,807	3,416,576	5,854,518	4,941,154	5,570,896	5,380,417	5,261,873	4,130,633	3,822,528	3,974,229	1,682,162
	RBA Adjustment Recorded to Revenue	2,774,203	1,880,528	3,418,305	5,854,231	4,940,679	5,570,610	5,380,150	5,281,630	4, 130, 432	3 822 320	3,973,958	1,681,950
	Adjustment to Revenue	270	279	273	265	285	286	267	243	201	208	2	312

HECO.WP.B-008 HAWABAN ELECTRIC COMPANY, INC. JUN 2018 ADJUSTNENT - MISCELLANEOUS & 4 to G RATE CHANGE CUSTOMER BILLING ADJUSTMENTS

TRACKER
REVENUE TE
ACCOUNT .
BALANCING
REVENUE

					į				:				
AS PREVIOUSLY STATED		Mar-14	Apr.14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Fob-16
5 2	Monthly Target Revenue Recorded Adlusted Revenue	44,129,429	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449	49,933,476	50,508,746	47,517,340	47,517,340	46,596,907	41,764,635 38,968,462
3 :5		3,663,688	2,824,228	4,655,250	5,448,033	4,550,635	5,440,794	4,476,777	4,314,890	4,483,879	4,708,379	5,465,563	2,796,173
53 14 13	Reversal of Previous Year Accrual Net RRA Channe	(3,910,640)	(1,049,273)	494,737	(260,010,c) (955,07)	1 406 100	(677,073)	(6.024.168)	(1.818.346)	(1,030,691)	(721.856)	323,767	(2,077,243)
	Beganning RBA Balance	64,830,562	64,700,876	63,660,674	64,212,547	64,199,163	62,850,842	62,267,427	60,848,258	59,205,801	58,455,031	57,791,569	58,179,894
	End Balance Before Interest	64,603,610	63,651,603	64,155,611	84 141 988	62,793,063	62,183,763	60,720,018	59 029 912	58,174,910	57,733,175	\$6,115,356	56,102,651
	Balance Subject to Interest	64 717 036	64,176,239	39,041,545	39.205.693	38,789,775	36,184,675	37,586,514	36,616,787	35,853,938	35,489,687	35,403,770	34,907,603
L9 Ld x (8% or 1,75%) + 12	Interest	94,379	93,590 63 745 193	36,936	57,75	56,356	52 239 464	60,774,601	59 083 311	787.752 B2	57.784.931	55,156,958	56.153.558
			Î										
	Tornel on Activa) Difference.												
	Recorded Adjusted Revenues - Unadjusted	40,445,741	19,668,701	41,326,526	43,277,375	45,900,564	48,563,655	45,456,699	46,193,656	43,033,481	42,805,961	41,131,344	38,968,482
	toertining out a	. (266)	. (268)	. 62	. 0285)	. (256)	. (2)	. (202)	. 1021	. 1981	. (20)	(230)	. (308)
	Revised Revenues	40,445,475	39,860,435	41,326,293	43 277 090	45,900,328	48,583,432	45,450,497	46, 193, 586	43,033,285	42,808,760	41,131,114	36,966,256
	Torget	44 20 429	42,712,929	17,108,00	48 725 408	12 12 18 12 12 18	52,004,449	49,933,476	20 200 46	046,116,14	016,16,14	106 066 09	100 000
		3,683,954	2,824,494	4,655,483	5,445,318	189,000,*	5,441,017	6/6'9/4'*	4,315,060	6,404,445	., vd8,580	5,465,793	616,001,2
		-	3	3	3	:	77 617	7	3	3	:	1	37
AS KEWSED		WIII-	Apr-14	May-14	-10m-14	201-14		*1-dec	25.10	404-14	700-14	430-13	2001
5	Monthly Tarnet Rovenue	44,129,429	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449	49,933,476	50,508,748	47,517,340	47,517,340	46,596,907	41,764,635
: 2	Recorded Adjusted Revenue	40 445 475	39,688,435	41,328,293	43,277,090	45,900,328	46,563,432	45,456,497	46,193,555	43,033,295	42,808,760	41,131,114	38,968,256
2.11	Tarpet vs. Actual Revenue	3,663,954	2,524,494	4,655,483	5,448,318	4,550,891	5,441,017	4,476,979	4,315,060	4,484,045	4,705,560	5,465,793	2,796,379
	Reversal of Previous Year Accrual	(3,910,640)	(3,873,501)	(4,160,513)	(5,518,592)	(5,856,735)	(6,117,673)	(6,024,168)	(8,133,238)	(5,514,770)	(5.430,235)	(5,141,778)	(4,873,416)
S 14+13	Net RBA Change	(226,686)	(1,049,007)	494,970	(70,274)	(1,405,844)	(878,856)	(1,547,209)	(1,818,178)	(1,030,725)	(721,655)	324,017	(2.077.037)
	Beginning RBA Balance	64,840,534	64,711,129	63,671,409	64,223,324	64,210,235	62,672,180	62,278,995	60,660,042	59,217,768	56,467,173	57,603,923	58,192,490
L7 L6+L5	End Balance Before Interest	64,613,648	63,662,123	84,166,379	64,153,050	62,504,391	18 201 85.324	60,731,790	39 04 1 556	35,187,041	57,745,518	58,127,940	26.15.453
	balance Subject to undress	767 76	93,605	250,040,54	57.185	56.578	55.711	787	53.410	52.288	51 787	51 642	50.918
	Codes 84 84 84	CAS ROT MB	63 755 728	64 223 324	2701245	62 860 969	62.251.035	60 788 545	59 095 276	58 239 339	57 797 285	58.179.582	56.168.371
	Revised Adjustment to Revenue	3,683,854	2,824,494	4,655,483	5,448,318	4,550,891	5,441,017	4,478,979	4,315,060	4,484,045	4,708,580	5,465,793	2,786,379
	RBA Adjustment Recorded to Revenue	3,683,688	2,824,228	4.655,250	5,448,033	4,550,635	5,440,794	4,478,777	4,314,890	4,483,879	4,708,379	5,465,563	2,796,173
	Adjustment to Revenue	266	992	233	265	256	223	202	170	168	201	230	92

HECO-WP-8-008 HAWADAN ELECTRIC COMPANY, INC. JUN 2016 ADJUSTMENT - MISCELLANEGUS & J DO G RATE CHANGE CUSTOMER BILLING ADJUSTMENTS

AS PREVIOUSLY STATED		Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16
=	Monthly Tarnet Reuseus	16 596 907	45 103 204	48 552 827	48 047 584	51 226 633	52 792 780	50 702 234	51 254 900	48 247 991	48 247 991	47 308 677	42 407 239
2	Beended Adjusted Revenue	47 716 788	12 125 471	43 533 832	41 994 944	47 281 491	49 462 250	47 377 603	15 850 541	46 028 249	15 122 445	45 223 334	41 404 808
11 (13.13	Toront on Action Deventes	3 AMB 119	2 975 733	5019195	6.052.640	3 945 142	3 330 530	3 324 631	5.424.359	2 219 742	3.125.348	4 075 343	1 002 431
	Personal of Designs Year Across	(5 197 949)	(5.327.198)	(5 40) 784)	(3,685,156)	(A) (A) (A)	(5.577.653)	(5.375.270)	(5 110 063)	(5 077 650)	(4 877 619)	(4.634.357)	(4.383.515)
	Net 000 Chance	(0.0 516.1)	(3 151 465)	(382 549)	2 387 464	11 156 702	0.247 (33)	(919)	11.204	(2 RS2 908)	(175.201)	(559.014)	(1.179.084)
		0.00,510,00	(5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	200,400,00	100,100	20 TO ED 2	63 446 030	C. 114.00	000,000	40 640 443	46 870 370	(10,000)	7.8070.44
	Degramy Row Balance	0 0 0 0		20,20	22, 200, 20	100	00000	377' 24' 3'	270, 27, 21	200	25,000,00	2,000,0	0.0
	End Balance Before Interest	2,056,146	52,559,314	52,244,650	24 691 669	53 363 505	51,199,813	49,163,663	48,366,125	46 757 235	45,048,027	44,529,927	1,500,533
	Balance Subject to Interest	33,913,645	32,826,740	32,033,116	32,681,896	33,026,599	31,964,349	30,672,681	30,183,944	28 435 416	28,055,078	27,374,083	26,384,817
L9 L8 x (6% or 1.75%) + 12	Interest	49,458	47,072	48,715	47,661	48,164	46,815	44,731	44,018	42,927	40,91 €	39,821	38,478
	Ending RBA Balance	54,907,604	52,607,188	52,291,365	54,739,350	53,431,969	51,246,428	49,228,416	49,610,143	46,600,162	45,088,941	44,569,848	41,539,011
	Target vs Actual Ofference:		40, 90, 67	449 449	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	****	46 and 644	And state of the	200		2000000
	Recorded Adjusted Neventes - Unagusted	42,/10,/00	42,123,471	769,555,63	23.34	164,102,19	48,406,230	COO. 1 15.14	*2,000,0	647'070'04	640,231,54	ACC.CC2,C.	000'-04'-14
	Billion Advertinents												•
	Revised Revenues	42,716,788	42,125,471	43,533,632	41,894,944	47,281,491	49,462,250	47,377,603	45,880,541	48,028,249	45,122,645	43,233,334	41,404,805
	Target	46,596,907	45,101,204	40,552,827	46 047 564	51 226 633	52,792,760	50 702 234	5 284 900	46 247 991	45,247,991	47,308,677	42,407,239
		3,850,119	2,975,733	5,018,195	8,052,640	3,945,142	3,330,530	3,324,631	5,424,359	2,219,742	3,125,348	4,075,343	1,002,431
			-										
AS REVISED.		Mar-15	Apr-16	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16
											;		
5.	Monthly Target Revenue	46,596,907	45,101,204	48,552,827	48,047,584	51,226,633	52,792,780	50,702,234	51,284,900	48,247,991	46,247,991	47,308,877	42,407,239
	Recorded Adjusted Revenue	42,718,768	42,125,471	43,533,632	41 994 944	47,281,491	49,462,250	47,377,603	45,680,541	46 028 249	45,122,645	43,233,334	41,404,508
ت د.ت ت	Target vs. Actual Revenue	3,550,119	2,875,733	5,019,195	6,052,640	3,945,142	3,330,530	3,324,631	5,424,359	2,219,742	3,125,348	4,075,343	1,002,431
3	Reversal of Previous Year Accrual	(5,192,949)	(5.327,198)	(5,401,784)	(3,665,156)	(5,301,934)	(5,577,653)	(5,375,270)	(5,110,063)	(5,072,650)	(4,577,639)	(4,634,357)	(4,381,515)
1.1.1	Net RBA Change	(1,312,830)	(2,351,465)	(382,588)	2,387,484	(1,356,792)	(2,247,123)	(2,050,639)	314,298	(2,852,908)	(1,752,293)	(\$29,014)	(3,378,084)
9	Beginning RBA Balance	56,183,789	54,923,603	52,640,075	52,317,052	54,753,456	53,459,506	51.247.205	49,264,721	49 623 047	46,013,235	45,101,867	44,892,554
	End Batance Before Interest	54,870,959	52,572,138	52,257,488	54,704,536	53,396,664	51,212,683	49,196,566	49,579,017	46,770,139	45,060,942	44,542,853	41,513,470
LG (L6+L7)-2-[1]	Balance Subject to Interest	33,921,673	32,834,574	32,040,960	32 689 744	33,034,454	31,972,212	30,680,550	30,191,820	29,443,299	20,062,967	27,381,980	26,392,720
L9 L8 x (8% or 1.75%) - 12	Interest	49,469	47,884	46,726	47,673	48,175	48,626	44,742	44,030	42,938	40,825	39,932	38,489
610 17 • 13	Ending RBA Batance	54,920,428	52,620,022	52,304,212	54,752,209	53,444,639	51,259,309	49,241,308	49,623,047	46 513 077	45,101,687	44,582,765	41,551,959
	Revised Adjustment to Revenue RRA Adjustment Recorded in Revenue	3,580,119	2,875,733	5,019,195	6,052,640	3,945,142	3,330,530	3,324,631	5,424,359	2.219.742	3,125,346	4,075,343	1,002,431
	Adjustment to Bearing			2011			000'000'0	00.				2.00	

HECO-WIV-B-008 HAWABAN ELECTRIC COMPANY, INC. JUN 2018 ADJUSTMENT - MRSCELLANEGUS & J TO O RATE CHANGE CUSTOMER BILLING ADJUSTMENTS

		Total Biltra Advisiment (11,040) (11,040) (22,849)		Total RBA Adustment 22,849
May-16	49.296.783 46,044.763 3.252.025 3.252.025 (1.566.382) 39,077.241 37,400,879 23,384.676 34,103 37,514,982	48 044,763 (3,559) 48,041,204 49,296,780 3,255,584	May-16 49.296,788 49.296,788 40.845,397,7 11.592,803,39 30,504,898 23,396,294 34,122 37,539,292	3,255,584 3,252,025 3,559
Apr.16	45,793,747 42,792,611 3,001,136 (4,608,612) (1,607,476) 40,634,204 39,026,728 35,432,432 35,485	42,792,611 (3,281) 42,769,330 45,793,747 3,004,417	Apr.16 45,793,747 42,789,300 3,004,417 (4,608,612) (1,604,4185) 40,651,348 39,647,771 24,343,918 39,647,771 24,343,918	3,004,417 3,001,136 3,281
Mar-16	47,308,877 43,845,263 3,63,414 (4,548,13) (1,185,39) 41,669,775 40,543,378 25,093,685 3,693,685 40,520,971	43,945,283 (4,200) 43,641,063 47,306,677 3,367,814	47,308,677 48,546,813 3,307,614 (4,546,813) 41,882,723 40,501,524 25,103,178 3,03,178 3,03,178 40,501,78	3,367,614 3,363,414 4,200
	Monthly Target Revenue Recorded Adjusted Revenue Terget va. Actual Revenue Terget va. Actual Revenue Revertal of Persous Year Accual Net RBA Change Begining RBA Balance Begining RBA Balance Balance Subject to interest Balance Subject to interest Ending RBA Balance	Target va Achual Ddite enco: Recoded Adjusted Rowenues - Unadjusted Blang Adjustments Revised Revenues Target	Monthly Target Rovelue Recorded Adjusted Rovenue Target va. Actual Revenue Target va. Actual Revenue Net RBA Change Regarining RBA Balance End Balance Before britesal Balance Subject to hierest interest Ending RBA Balance	Revsed Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue
AS PREVIOUSLY STATED	LS L1-L2 LS L1-L2 LS L4-L3 LS L4-L3 LS L4-L3 LS L4-L3 LS L4-L3 LS L4-L3 LS L4-L3 LS L4-L3 LS L3-L3 LS		48 REVISED 11 12 13 14 15 16 16 16 16 16 16 17 18 18 18 18 18 18 18 18 18	

HECO-NP-8-009
HAWAIIAN ELECTRIC COMPANY, INC.
JUL 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

الع	702,656 354,039 448,617 555,862 557,831 559,861 34,358 823,174	15an Billing. Adivament. (42,035) 154,039 Adivament. (42,035) 154,039 154,039 152,036 154,039 155,035 155,039 156,039 156,039 156,039 156,049 150,449	5.617 Ion RBA 5.617 Advancent 42,035
Jun-16	9 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4 40g Q Q Q 4 Q D G K K K K K	5,848,617 5,848,617
May-16	49,296,766 46,044,763 3,252,025 (4,646,387) (1,596,387) 39,480,678 34,403 37,514,982	46,044,763 49,296,788 3,252,025 3,252,025 49,286,788 46,044,763 48,69,362 41,596,362 41,596,362 39,119,481 39,523,114 39,	3,252,025
Apr-16	45,793,747 42,792,611 3,001,136 (4,608,612) (1,607,476) 40,634,204 39,024,728 35,485 39,062,213	42,792,611 42,792,611 45,793,747 5,001,136 45,793,747 45,793,747 45,793,747 45,793,747 45,793,747 45,793,747 10,007,475 39,068,941 39,525 39,104,453	3,001,136
Mar-16	47,308,677 43,845,263 3,333,414 (4,540,813) (1,185,399) 41,669,775 40,444,376 25,003,985 36,595 40,520,971	43,945,283 47,300,677 3,303,414 47,300,677 47,300,677 47,300,677 47,300,677 47,300,677 47,300,677 47,300,677 47,300,677 47,300,677 47,100,600 40,563,174 40,563,174	3,363,414
Feb-16	42,407,239 41,404,808 1,002,431 (3,381,515) (3,378,084) 44,878,617 41,500,533 26,304,817 38,478 41,539,011	41,404,608 (6,005) 1,006,436 1,006,436 1,006,436 41,396,603 41,396,603 (3,313,078) (3,313,078) 41,542,603 26,408,722 38,513 41,542,603 41,543,613 41,543,613	1,008,436
Jan-16	47,308,677 43,233,334 4,075,343 (4,634,357) (5,58,014) 45,529,927 27,374,063 39,921 44,569,848	43,233,334 (16,005) 47,308,677 4,031,346 47,008,677 41,277,329 4,031,349 4,0	4,081,348 4,075,343 6,005
Dec-16	48,247,991 45,122,645 3,125,346 (4,877,639) (1,752,293) 46,800,320 45,048,027 28,055,078 45,088,941	45,122,845 (6,005) 45,116,640 3,131,351 3,131,351 48,247,891 48,116,640 3,131,351 48,77,639 (1,746,289) (4,677,639 (1,746,289)	3,131,351 3,125,346 6,005
Nov-15	48,247,991 46,025,249 2,219,742 (2,632,908) (2,632,908) 49,610,143 46,757,235 29,435,416 42,927 48,800,162	48,028,248 (8,005) 46,022,244 2,225,747 2,225,747 46,022,244 6,022,244 6,022,244 6,022,244 6,022,244 6,022,244 6,022,244 6,022,244 6,022,244 6,022,244 6,022,244 6,022,245 6,022	2,225,747 2,219,742 6,005
Oct-15	51,284,900 45,860,541 5,424,359 (5,110,063) 314,296 49,568,125 30,183,944 44,018 49,610,143	45,860,541 (8,005) 51,284,900 5,430,364 5,430,364 5,430,364 12,006) 120,301 12	5,430,384 5,424,359 6,005
Sep-15	56,702,234 47,377,803 3,324,831 (5,375,270) (5,375,270) (5,375,270) (5,375,370) 51,234,324 49,183,665 30,672,881 44,731	47,377,603 (6,005) 47,271,594 50,702,234 3,330,636 47,371,598 3,330,638 47,371,598 3,330,638 47,371,598 47,371,598 47,371,598 47,371,598 47,398 49,246,438	3,330,636 3,324,631 6,005
Aug-15	52,792,780 49,482,250 3,330,530 (5,577,653) (2,477,633) 53,446,346 51,189,813 31,964,349 46,515 51,246,428	49,462,250 (8,005) 19,652,45 52,762,782 3,335,535 3,345,335 3,345,335 3,345,335 3,346,345 3,346,345 3,346,346 3,346 3,	3,336,535 3,330,530 6,005
	Monthly Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue Target vs. Actual Revenue Reversal of Pervious Year Accusal Net RBA Chango Beginning RBA Bolance End Balance Before Interest Balance Subject to Interest Interest Ending RBA Balance	Targer va Actual Difference: Recorded Adjusted Revenues - Unadjusted Revised Revenues Targer va Actual Revenue Recorded Adjusted Revenue Reversal of Pervious Year Accual Net RBA Change Beginning RBA Change Beginning RBA Change Beginning RBA Change Beginning RBA Balance Subject to Interest Interest Eviding RBA Balance	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue
AS PREVIOUSLY STATED	10 (7 + 18 12 (1 - 12 13 (1 - 12 14 (4 + 13 16 (16 + 12) + 2 + [1] 17 (1 - 12 18 (16 + 12) + 2 + [1] 19 (17 + 18 19 A8 REVISED 11 12 14 15 16 16 16 16 16 16 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18		

Note [1]
In connection with Decision and Order No. 31908 on Schadule A of the Decoupling Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its tax treatment of 1884 revenues to the Service to change its accomplishing account FRBAT) revenue recognition to a recognition method based on when rates are adjusted and revenues are callected, effective January 1, 2014, Accordingly, starting with May 2014, interest is calculated based on a net-of-income tax RBA balance, and the following income tax factor is used in the calculation.

Income Tax Factor (1 / I-tax rate) 1,636929121

Note [2] Totals may not add exactly due to rounding.

Note [3]
The Company recorded adjustments to the RBA related to miscellaneous customer billing adjustments that were processed in July 2018. The Company recorded adjustments to the RBA based on the billing adjustment in the prior months incurred. No interest Impact was calculation direstroad of \$50,000 per the Revenue Balancing Account provision turif.

HECO-WP-8-010 HAWABAN ELECTRIC COMPANY, INC. SEP 2016 ADJUSTMENT - MASCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

, -	Adustment 144,043	Total BBA Advisiment (144,043)	Total Interest. Adiustment. (025)
Avg-16	83,561,111 3,869,301 (433,110) (433,110) (433,110) (433,110) (433,110) (433,110) (432,010 (432,010) (432,010) (433,801) (433,801) (433,801) (44,840) (4	3,879,041 3,886,770 (7,729)	35,247 35,372 (125)
\$14NF	51,980,790 4,345,2181 4,348,2181 4,348,2181 4,348,1705) 8,947,022 8,947,020 8,438,022,372 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,628 4,348,638 4,348,	4,348,629	35,317 35,439 (122)
Jun-16	50.202,639 5,435,039 5,435,039 2,355,986 39,537,831 39,537,831 39,520,636 5,640,632 5,	5,840,652 5,848,617 (7,965)	34,240
May-16	49,286,788 3,552,473 3,552,473 11,598,337 11,598,337 3,977,241 3,1977,241 3,1977,241 3,1977,241 14,667 14,667 3,751,498 3,277,158 4,286,783 3,277,158 4,286,783 3,277,158 4,286,783 3,277,158 4,286,373 3,277,158 4,373,158 4,373,178 3,277,158 4,373,178 3,277,158 3,277,158 4,278 3,277,158	3,237,158 3,252,025 (14,867)	33,995 34,103 (108)
Apr-16	45,793,747 42,792,511 3,001,138 (1,603,472) 40,634,204 40,634,204 31,5465 31,5	2,965,479 3,001,136 (15,657)	35,390 35,485 (95)
Mar-16	47,308,677 3,883,414 3,883,414 41,545,813 41,649,775 41,649,775 40,643,785 40,520,871 41,972,889 41,302,677 41	3,335,786 3,363,414 (27,626)	36,595 36,595 (75)
Fob-16	42,407,239 1,004,806 1,004,806 1,004,805 1,300,333 28,478 41,539,01 13,651 11,418,459 14,410,459 14,410,459 14,410,459 14,410,459 14,430,709 14,430,709 14,430,709 14,430,709 14,430,709 14,430,709 14,430,709 14,430,709 14,430,709 14,430,709 14,430,709 14,440,635 14	988,780 1,002,431 (13,651)	38,421 38,478 (57)
Jan-16	47,308,677 47,533,334 4,575,333 44,569,649 44,509,649 44,509,649 44,513,775 44,513,775 44,73,308	4,075,343	39,870 39,921 (51)
Doc-15	46,247,991 46,175,346 (1,57,239) 46,800,320 46,800,320 46,800,320 46,800,320 46,800,320 46,800,340 46,800,340 46,247,991 46,391,447	3,104,515 3,125,346 (20,631)	40,873
Nov-15	46,247,391 (5,072,660) (5,072,660) (5,072,660) (5,072,660) (5,072,660) (5,072,660) (6,072,660) (6,042,760) (6,044,360) (6,044,	2,203,622 2,219,742 (16,120)	42,927 42,927 (25)
Oct-15	51.284.800 (51.10.063) 31.42.96 (51.10.063) 31.42.96 (51.10.063) 54.60.135 54.60.135 54.60.135 55.60.135 55.60.135 55.60.135 56.60.135 5	5,404,762 5,424,359 (19,597)	44,010
	Monthly Target Revenue Turget vs. Actual Revenue Turget vs. Actual Revenue Recorded Adjustive of Revenue Regioning RBA Balance Elegining RBA Balance Ending RBA Balance Target vs. Actual Deference: Recorded Adjusted Revenues - Unadjusted Balance Subject to interest Interest Ending RBA Balance Balance Subject to interest Target vs. Actual Deference: Recorded Adjustments Revised Revenues Target vs. Actual Revenue Revenue of Previous Year Accrual Revised Revenue Target vs. Actual Revenue Revenue of Previous Year Accrual Adamer Balance Bollote interest Balance Ballote interest	Revised Adjustment to Revenus RBA Adjustment Recorded to Revenue Adjustment to Revenue	Revised filterest Interest Recorded Adjustment to Interest
AS PREMOUSLY STATED	43.88.73.89 43.88.73.89 43.88.73.89 44.43		

Note [1]
In connection with Decision and Order No. 31908 on Schedule A of the Decoupling investigation, issued on February 7, 2014, the Company necked approval on April 20, 2014 from the internal Revenue Service to change 43 tax treatment of RBA tevenues from the book accusal method of asset on when taxes are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a net-ol-income tax RBA balance, and the following income tax fights a used in the calculation.

1,636929121 income Tax Factor (1 / 1-tax rate)

Totals may not add exactly due to rounding

Note (3)
The Company recorded adjustments to the RBA related to miscellaneous customer billing adjustments that were processed in September 2016. The Company recorded adjustments to the RBA and interest based on the billing adjustments in the prior months incurred.

HECO-WP-B-011 HAWAIIAN ELECTRIC COMPANY, INC. OCT 2016 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	a	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	91-uur
	1												
5 !	Monthly Torget Revenue	41,764,633	46,596,907	40,101,204	19,352,827	45,047,384	CC0 027 IC	25, 192, 180	20,702,234	21,284,900	187.187	166 / 47 94	1/0'00''
	Recorded Adjusted Revenue	38 968 462	42,716,754	42,125,471	43,533,632	41.994.944	47 281 493	49,462,250	47,377,603	45,660,541	48,028,249	45 122 045	43, 233, 334
1 1-12	Target vs. Actual Revenue	2,796,173	3,880,119	2,975,733	5,019,195	6,052,640	3,945,142	3,330,530	3,324,631	5,424,359	2,219,742	3,125,348	4,075,343
3	Reversal of Previous Year Accrual	(4,873,416)	(5,192,949)	(5,327,198)	(5,401,784)	(3,565,156)	(5.301.934)	(5,577,653)	(5,375,270)	(5,110,063)	(5,072,650)	(4 877 639)	(4,634,357)
15 14 13	Net RBA Chance	(2 077 243)	(1 312 830)	(2.351.485)	(382,589)	2,387,484	(1.356.792)	(2 247 123)	(2.050.639)	314,296	(2.852.908)	(1,752,293)	(559,014)
	Occupation DDA Contractor	K# 470 #04	84 170 070	010 170	42 627 236	50C 101 CS	54 740 597	\$1 448 DY	61 214 124	40 251 820	40 640 143	46 000 130	45 ORS 041
	Department Rest Battance	20,170	20,10,010	2	26, 120,20	7, 70, 70		000000000	. 70	20' 77'		2000	****************
	End Balance Before Interest	56,102,651	54,656,148	52,559,314	22,244,530	691,69	200	51,199,013	49,183,585	49,566,125	46,757,235	45.048.02	126,626,44
LB (L6 · L7) · 2 · [1]	Batance Subject to Interest	34 907 603	33 913 845	32,826,740	32,033,116	32,681,696	33 026 599	31,964,349	30,672,651	30,183,944	29,435,416	28 055 078	27, 374, 083
	Interest	50 907	49.458	43 832	48.715	47.883	48.184	46 615	44.731	44.018	42.927	40.914	39.621
	Foding RRA Bulance	58.153.558	54 907 504	52 607 186	52 291.365	54.739,350	53,431,969	51,246,428	49.228.416	49.610.143	46.500.162	45,058,941	44,569,848
i													
	Target on Artist Differences												
	Recorded Adjusted Revenues - Unadjusted	38.968.462	42.718.788	42.125.471	43,533,632	41.994,944	47 281,491	49.462.250	47,377,603	45,860,541	46,028,249	45,122,645	43,233,334
	Differ a division to the contract of			1380	5	1386	(285)	100	Ś	5	(286)	340	(386)
	Busing Adjustments 1	Ē	(ce7)	(607)	(583)	(620)	(279)	(270)	(502)	(502)	(282)	(285)	(282)
		97, 800 84	42 748 503	281 301 07	41 611 064	41 004 170	47 280 027	40 481 680	17 177 030	44.850 020	46 007 581	45 172 034	797 745 CA
	Terror	41 764 635	46 596 907	15 101 204	48 552 827	48.047.584	51 226 633	52 792 780	50 702 234	51.284.900	48,247,991	48.247.991	47.308.677
		700 207	1 697	3 072 018	1010 701	200 130 2	2 046 7ng		30 + 301 0	000 707 9	220.310	1 135 017	4 075 013
		7,194,40	1000	000'018.7		007'000'0		33.	2000	030'535'0	200		1000
AS REVISED		Enb-15	Mnr-15	Apr-15	May-15	Jun-15	Ard-15	Aug-15	Sep-15	Oct-15	Nov-15	Dac-15	Jan-16
-	Monthly Tarnet Revenue	41 764 635	46 596 907	45.101.204	48 552 827	48.047.584	51,226,633	52.792.780	50.702.234	51.284.900	48.247.991	48,247,991	47,308,677
: :	Berneded Adjusted Deserves	38 968 348	42 716 503	42 125 188	43 533 064	41 994 379	47 280 927	49 481 680	47 377 039	45,859,080	46 027 681	45 122 074	43 727 765
:	Technical Adjusted Novellad	700.00		2 078 048	100.000	306 1 30 0	901 SAG 6		304 305 5	4 4 2 4 9 2 9	01000	1,050	4 076 013
	larget vit. Actual Aevenue	(007 007 77	0.000	2,870,010	2019,103	7 685 150	10101	2,557	2,125,103		/5 070 650v	(4 877 830)	71. 11.
	Neversal of Previous Teas Accrus	(014,070,4)	13, 182, 948	(9,757,190)	(3,401,104)	(001,000,0)	(C C C C C C C C C C C C C C C C C C C	(000,710,0)	(0.7'6.6'6)	(**************************************	(0.00,0.00,0.0)	600	(300,000)
T1 - 73 - 51	Net RBA Change	(2,077,129)	(1,312,545)	(2,351,180)	(382,021)	2,386,049	(1,356,228)	(2,246,553)	(2,050,075)	714,65	(Z,852,340)	(1.751.722)	(336,445)
	Beginning RBA Balance	58,179,694	26 17 990	54.911.78	52,627,925	52,305,460	54 742 417	53,449,323	51,237,283	49,255,355	49,614,235	46 804 983	15,094,179
	End Balance Before Interest	56,102,765	54 858 545	52,559,999	52,245,904	54,693,508	53,386,190	51,202,770	49,167,208	49,570,213	48, 761, 894	45,053,261	44,535,734
UB (UG + L7) + 2 + [1]	Balance Subject to Interest	34,907,638	33,914,002	32,827,071	32,033,711	32,682,835	33,027,863	31,965,982	30,674,661	30,166,270	29,438,089	28,058,101	27,377,457
L9 L8 x 1,75% + 12	Interest	50,907	49,458	47,873	45,715	47,662	49 166	46,617	1,72	44,022	42,931	40,918	39,925
110 17 + 19	Ending RBA Batance	56,153,672	54,908,003	52,607,872	52,292,620	54,741,170	53,434,356	51,249,387	49,231,942	49,614,235	46,804,825	45,094,179	44,575,659
	Revised Adjustment to Revenue	2,796,287	3,880,404	2,976,018	5,019,763	6,053,205	3,945,706	3,331,100	3,325,195	5,424,920	2,220,310	3,125,917	4,075,912
	RBA Adjustment Recorded to Revenue	2,796,173	3,880,119	2,975,733	5,019,195	6,052,640	3,945,142	3,330,530	3,324,631	5,424,359	2,219,742	3,125,346	4,075,343
	Adjustment to Revenue	114	582	285	268	595	264	570	79S	58	299	571	696

Note [1]
In connection with Dectaion and Order No. 31909 on Schadde A of the Decoupling investigation, issued on February 7. 2014, the Company received approval on April 28, 2014 from the internal Revenue Service to change its tax treatment of RBA revenues to the book account inchbod of revenue behanding account [FBA7) revenue recognition to a recognition method based on when rates are adhered and revenues are callected, effective January 1, 2014, Accordingly, stanting with May 2014, interest is catedlated based on a net-or-factor at RBA balance, and the following income tax factor is used in the calculation.

Income Tax Factor (11,636929121

Note [2] Fotals may not add exactly due to rounding.

Note [3]
The Company recorded edjustments to the RBA related to customer billing adjustments due to 6 J to G rate change that were processed in October 2016. The Company recorded edjustments to the billing adjustment in the prior months incurred. No Interest impact was calculated as the adjustment did not ment the interest recalculation threshold of \$50,000 per the Rovenue Balancing Account provision Intit!

HECO-WP-B-011
HAWAIIAN ELECTRIC COMPANY. INC.
OCT 2016 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

007 2016		

		Lotal Bittina. Adhrstmen. (5,545) (4,603) (10,348)		Lotal RBA. Advisiment 10,348
$\overline{}$	3277 	7~		. 140
Sep-16	51,447,350 46,441,855 5,002,495 (4,055,864) 919,631 39,375,865 40,295,596 24,335,676 35,490 40,331,086	46,441,855 (286) (285) 46,441,285 51,447,350 5,006,063	Sep-16 51,447,350 46,441,282 5,006,088 (4,005,084) 920,204 930,304 39,36,315 24,341,871 35,489 40,341,518	5,006,068 5,005,495 573
Aug-16	53,581,111 49,584,341 3,666,770 (4,323,881) (437,111) 39,922,572 39,465,461 24,555,184 35,372 39,520,833	49,694,341 (285) (285) (265) 49,693,770 53,581,111 3,887,341	Aug-16 53.561,111 48.693,770 3.667,341 (4.23.501) (436,540) 39.591,642 39.591,642 39.591,642 39.591,642 39.591,643 39.591,643 39.591,643	3,887,341 3,886,770 571
Jul-16	51,860,790 47,632,161 4,164,137,053 216,824 39,670,209 39,687,133 24,087,133 35,439 35,439 35,439 35,439	47,632,161 (285) (285) 47,631,590 51,980,780 4,349,200	51,880,780 4,7831,580 4,7831,580 4,131,705 217,485 23,586,235 24,596,235 24,596,235 24,596,235 24,596,235 24,596,235 24,596,235 24,596,235 24,596,235	4,349,200 4,348,629 571
Jun-16	50,202,656 44,354,039 5,646,617 (3,752,632) 2,055,965 37,537,831 39,593,816 34,358 39,585,817 39,626,174	44,354,039 (285) (285) 44,353,466 50,202,656 5,849,188	Jun-16 44.353,468 5.649,186 5.649,186 7.752,632 7.755,949 23,662,499 23,562,499 23,563 39,536,865	5,649,188 5,648,617 571
May-18	49,286,788 46,044,763 3,252,025 (4,848,397) (1,596,362) 39,077,241 37,480,379 23,384,103 34,103 37,514,582	46,044,763 (265) (265) 46,044,192 49,296,788 3,252,596	May-16 49.209.78.8 40.044.192 3.22.5.96 (4.848.387) (1.595.791) 39.084.77 39.488.895 23.389.455 23.389.455 37.523.095	3,252,596 3,252,025 571
Apr-16	45,792,747 42,792,811 42,601,136 (4,602,612) (1,607,476) 40,634,204 39,026,728 24,332,432 35,465 39,062,213	42,792,611 (285) (285) 42,792,040 45,793,747 3,001,707	Ant-16 45,782,747 42,782,040 3,001,707 (4,608,612) (1,608,628,037 19,034,257 24,338,857 23,608,748	3,001,707
Mar-16	47,308,677 43,945,263 3,565,414 (4,548,813) (1,165,399) 41,669,775 40,484,376 25,087 36,595 40,520,971	43,945,263 (286) (285) 43,944,691 47,308,677 3,363,986	Mar-18 47,300,677 43,946,691 3,551,688 (4,548,813) (1,168,627) (1,	3,363,986 3,363,414 572
Fob-16	42,407,239 41,404,808 1,002,431 (4,381,515) (3,379,084) 44,579,617 38,478 41,539,011	41,404,508 (285) (279) 41,404,244 42,407,239 1,002,995	Feb-16 4, 207, 239 41, 207, 239 41, 207, 239 41, 207, 239 41, 207, 239 41, 207, 239 41, 250, 239 41, 250, 239 41, 250, 239 41, 250, 239	1,002,995 1,002,431 564
g	Monthly Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue Revertal of Pervious Year Accural Revertal of Pervious Year Accural Revertal of Pervious Year Accural Reprinting Rea Galance End Balance Before Interest Interest Ending RBA Balance	Target va Actual Difference: Recorded Adjusted Revenues - Unadjusted Edito Adjustements I Editop Adjustements 2 Revised Revenues Target	Monthy Target Rovenue Recorded Adjusted Revenue Recorded Adjusted Revenue Reversal of Previous Year Accusal Net RBA Change Republing RBA Balance End Balance Before Interest Interest Ending RBA Balance Ending RBA Balance	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenuo
AS PREVIOUSLY STATED	11 1-12 11 12 11 11 11 11 11 11 11 11 11 11 1		AS REVISED 1 1-12 1 1-12 1 16-13 1 16-13 1 16-13 1 18-13 1 18-13 1 17-19	

HECOMPAGNS
HANDIAN ELECTRIC COMPANY, INC.
NOV 2018 ADJUSTMENT - MISCELLANEOUS & PIG-JENTE CHANCE CUSTOMER BILLING ADJUSTMENTS

AS PREVIOUSLY STATED	a	Nov-15	Dec-15	gt-uar.	Feb-18	Mer-16	APE-18	May-16	รูป-มก-	91-106	Aug-15	Sep-18	Oct-18	
11.0 11.15 1	Monthly Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue Revenue of Prevenue Revenue of Prevenue Beginning REA Change Beginning REA Balance End Balance Bride eintrett Behance sürject in marest Inferent	48,247,001 48,028,249 2,210,742 (5,072,050) (2,622,002) 49,757,235 29,354,16 42,077 46,600,162	48,247,991 45,122,645 3,125,346 (4,877,539) (1,752,293) 46,804,027 46,048,027 46,048,027 46,048,027 46,048,041	47,308,677 43,233,334 4,075,343 (4,834,357) 45,586,941 44,528,927 27,374,083 39,921 44,568,848	42,407,239 41,404,608 1,002,431 (4,381,515) (3,379,084) 44,670,533 26,384,617 35,476 41,539,011	47,309,677 43,645,263 3,383,444 (4,548,813) (1,185,399) 41,689,775 40,48,378 36,585 40,520,915	45,703,747 42,782,611 3,001,386 (4,808,612) (1,807,476) 11,807,204 39,028,728 24,332,432 39,082,213	49,290,788 48,044,783 3,252,025 (4,848,387) (1,586,332) 37,480,878 34,103 31,514,682	50,202,656 44,354,036 5,646,617 (3,742,632) 2,055,885 39,537,831 39,537,831 39,532,636 34,356 39,632,774	51,880,780 47,852,191 4,348,026 (4,131,705) 216,824 39,670,208 39,670,208 35,430 35,433 35,433	53,581,111 3,686,740 (4,323,681) 39,525,781 39,525,184 36,372 39,520,833	61,447,350 48,441,655 5,005,495 (4,085,804) 919,031 39,75,905 40,785,598 24,335,678 35,490 40,331,088	52,040,061 47,122,561 4,917,480 (4,075,714) 841,765 40,341,434 41,163,200 24,901,698 36,315 41,219,515	
	Target va Actual Difference: Recorded Applicated Reventers - Unadjusted Billing Adjustments 1 Billing Adjustments 2 Revides Reventues Target	46,028,249 (864) 46,027,385 48,247,991 2,220,925	45, 122, 845 (2, 328) 45, 120, 317 48, 247, 901 3, 127, 874	43,233,334 (2,748) 43,230,568 47,309,677 4,078,091	41,404,838 (2,408) 41,402,400 1,004,839	43,945,263 (2,408) 43,042,655 3,365,622	42,792,611 (2,748) 42,769,963 45,703,747 3,003,884	46,044,763 (2,335) 48,042,428 3,254,360	44,354,039 (2,413) 44,351,626 50,202,836 5,651,030	47,632,161 [2,657] 47,629,504 61,980,790 4,351,286	48,654,341 (2,403) 49,691,036 53,581,111 3,669,173	48,441,855 (2,568) (2,487) 48,438,789 5,010,581	47,122,581 (3,024) (3,008) 47,115,848 52,040,051 4,924,212	Jetal Brima, Adjustment (5,614) (79.539) (35,150)
AS REVISED 11 12 13 11-12 14 16 16 16 16 16 16 17 19 19 19 19 19 19 19 19 19	Menthy Target Revenue Recorded Aglasted Revenue Target vs. Actual Revenue Reversal of Previous Year Accusal Net TBAC Change Beginning RBA Galance Bend Blance Before interest Behance Before interest Interest Interest Ende	48.247.891 48.027,365 2.256,328 (5.022.850) 49.610,143 46.758.119 29,435,688 42.827 48.801,045	Dec.15 46,247,691 46,120,317 3,127,674 (4,877,639) (1,749,65) (1,7	Jan-16 47,306,617 40,720,586 40,720,586 (546,726) 44,575,886 27,376,885 27,376,885 27,376,885 27,376,885 27,376,885 27,376,885	Feb-18 41,402,239 41,402,409 1,004,839 (4,381,515) (4,381,676 (4,381,676 (4,381,676 (4,381,882,882 (5,381,882,882 (5,381,882,882 (4,541,389	Mar-16 47,308,677 43,962,855 3,365,625 (4,548,813) 41,678,153 40,495,192 25,093,03 29,093,09 29,094 40,531,789	Apr.16 45, 793,747 42, 789,663 3,003,884 (4,606,612) (1,604,728) 39,040,271 24,339,886 39,075,767	May-16 46,226,788 3,254,363 (4,646,387) (1,564,027) 39,466,727) 39,466,768 20,533,673 37,466,768 20,533,673 37,530,684	Jun-16 50,272,659 44,351,676 5,851,620 (3,772,832) 37,653,733 39,612,131 25,575,333 39,616,334 39,646,554	Jul-16 51, 260, 790 47, 620, 504 47, 620, 504 47, 620, 504 71, 620, 720 73, 720 73, 730 73, 740 73, 740 73, 740 73, 740 73, 740 73, 740 740 740 740 740 740 740 740 740 740	Aug-16 49,631,538 3,883,173 (43,23,881) (43,23,881) 39,543,685 24,286,749 24,286 39,544,280	Sep-16 40,436,730 5,010,581 (4,065,884) 924,717 39,399,382 40,324,109 24,351,544 105,352 40,356,372 40,356,072	Oct-16 52,040,001 4,924,212 (4,075,714) 846,428 40,289,870 41,218,468 24,921,189 26,921,189 26,921,189 26,921,189	,
	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	2,220,628	3,127,574 3,125,348 2,328	4,078,061 4,075,343 2,748	1,004,839 1,002,431 2,408	3,365,822 3,363,414 2,408	3,003,884 3,001,136 2,748	3,254,360	5,851,030 5,848,617 2,413	4,351,286	3,889,173 3,885,770 2,403	5,010,581 5,005,485 5,086	4,624,212 4,917,480 6,732	Total RBA Advisiment 35,150

Nets (1)
In control with Decision and Order No. 31908 an Schedule A of the Decoupling Investigation, stated on February 7, 2014, the Compatry Acethed approach on April 20, 2014 from the Instance Service to change it an treatment of RBA revenues are controlled as a recognition method based on when makes and revenues are collected, effective January 1, 2014. Accordingly, stating with May 2014, interest is calculation in a net-of-thogone in RBA basince, and the observing uccome as factor is used in the definition.

1 636929121 Income Tay Factor (1714ax rate)

Note [2] Totals may not add exactly due to rounding.

ĝ Note [3]
The Company recorded adjustments to the REA related to miscellaneous and P to J rate change customer bling adjustments that were processed in November 2016. The Company recorded adjustment to the biding adjustment in the prior months increase interest impact was calculated as the adjustment did not mainthe interest resolution threshold of \$50,000 per the Revenue Balancing Account provision than 1.

HECO-MP-8-013 HAWAIIAN ELECTRIC COMPANY, INC. NOV 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED		Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sept-11	0ct-11	Nov-11	Dec-11	Jan-12	Fob-12
រ 2 2 2 :: 2	Monthly Target Revenue Recorded Adjusted Revenue Torget vs. Actual Revenue	38,452,740 37,206,214 (753,474)	35,681,973 35,823,429 (141,458)	37,812,917 37,102,931 709,988	39,046,559 36,409,589 2,635,970	41,350,321 36,725,938 2,621,383	45,898,046 38,485,482 7,412,584	44,070,248 38,385,130 5,885,118	44,577,970 38,799,920 5,778,050	41,937,517 38,574,222 5,363,595	41,937,817 39,961,425 1,976,392	41,125,462 39,527,599 1,597,863	36,860,589 37,356,068 (485,469)
2 2 2 2	Revessal of Previous Year Accrual Not RBA Change	(753,474)	(141,458)	709,988	2,836,970	2,621,383	7,412,584	5,685,118	5,778,050	5,363,595	1,976,392	1,587,883	(495,469)
	End Batance Before Interest	(753,474)	(978,510)	(273,062)	2,360,768	4,987,383	12,418,310	18,131,090	23,985,583	29,398,998	20,681,826	22,378,157	21,990,584
	Balance Subject to Interest Interest	(1,884)	(4,539)	(3,140)	5,211	18,383	43,560	76,443	105,483	133.586	98,465	107,896	111,192
E10 C7 + C8	Ending KBA Batance	(967'66/)	(883,040)	(202,022)	7,363,990	et iconic	0.104.21	550,102,01	200,1 20,12	20,300,00	100		
	Target vs Actual Officence: December Addresses (Tradiseled	37 206 214	35 823 428	102 631	36 409.589	38,728,938	38,485,482	38.385,130	38.789.920	36,574,222	39,861,425	39,527,599	37,356,068
		(84)	(S)	(9) (158)	(59)	(60)	(74) (225)	(74) (185)	(17)	(70)	(64)	(61)	(60) (203)
	Ravised Revenues	37,206,003	35,823,193	37,102,694	36,409,353	38,728,698	35,485,182	38,384,861	36,789,653	38,573,948	39,961,167	39,527,336	37,355,804
		(753,263)	(141,220)	710,223	2,637,206	2,621,623	7,412,884	5,685,387	5,778,317	5,363,869	1,976,650	1,598,126	(495,205)
AS REVISED		Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sept-11	0ct-11	Nov-11	Dec-11	Jan-12	Feb-12
5 2	Monthly Target Revenue Recorded Adjusted Revenue	36,452,740	35,681,973	37,812,917	39,046,559	41,350,321	45,898,046	44,070,248	38,799,653	41,937,817	41,937,817	41,125,462 39,527,336	36,860,599
a.i. s	Target vs. Actual Revenue	(753,263)	(141,220)	710,223	2,637,206	2,621,623	7 412 564	5,685,387	5,778,317	5,363,869	1,978,650	1,598,126	(495,205)
2 Z	Not RBA Change	(753,283)	(141,220)	710,223	2,637,206	2,621,623	7,412,864	5,685,387	5,778,317	5,363,869	1,978,650	1,598,126	(495,205)
	Beginning RBA Balance		(838,842)	(982,598)	(275,513)	2,366,909	5,008,921	12 447 454	18,209,282	24,037,438	20, 707	20,762,664	21,488,920
L/ L6 - L7 - 2 or (L6 - L7) - 2 - [1]	End defence before interest Bajance Subject to Interest	(376,832)	(907,452)	(627,487)	1,043,090	3,677,720	8,713,353	15,290,148	21,098,451	26,719,372	19,696,079	21,581,847	22,241,317
L9 L8 x (6% or 1,75%) + 12 L10 L7 + L8	Interest Engine RBA Batance	(1,883)	(4,537)	(3.137)	5,215	18,389 5,008,B21	43,567	78,451 18,209,292	105,492	133,597 29,534,904	20,782,584	107,910	22,104,922
	Revised Adjustment to Revenue	(753,263)	(141,220)	710,223	2,637,206	2,621,623	7,412,864	5,685,387	5,778,317	5,383,869	1,976,650	1,598,126	(495,205)
	Adjustment to Revenue	211	23	23,	238	240	588	569	297	273	259	£	Ž.

Note [1] Internation and Order No. 31908 on Schodule A of the Decouping Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its tax treatment of RBA revenue secopation to a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a nat-orincome tax RBA balance, and the following income tax factor is used in the catculation.

1.636929121 Income Tex Fector (1 / 1-tax rate)

Note (2) Totals may not add exactly due to rounding.

Note [3]
The Company recorded adjustments to the RBA related to miscellaneous customer billing adjustment that were processed in November 2016. The Company recorded adjustments to the billing adjustment in the prior months incurred. No Interest impact was calculated as the adjustment did not meet the interest recalculation threshold of \$50,000 par the Revenue Balancing Account provision lafff.

HECO-WP-8-013
HAWAIIAN ELECTRIC COMPANY, INC.
NOV 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER	VENUE TRACKER							İ					
AS PREVIOUSLY STATED		Mer-12	Apr-12	May-12	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12	Dec-13	Jan-13	Feb-13
5	Monthly Target Revenue	41,125,462	40,152,722	43,255,064	43,980,358	45,538,102	46,940,073	45,011,148	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099
: :	Recorded Adjusted Revenue	38,621,542	20 204 030	1,640,204	97,844,203	40,909,646	5 811 775	5 445,423	791 254 197	194 563	2.151.281	3.472.300	2.615.541
	Revortal of Previous Year Accust	0.500,000,0	,		(1.548.140)	(1,611,167)	(1,679,771)	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,381)	(1,499,941)	(1,322,899)
15 14+13	Net RBA Chance	2,503,620	1,768,684	1,614,860	4,490,013	3 017,269	3,932,004	3,996,248	2,545,648	2,654,507	759,880	1,972,359	1,293,642
	Beginning RBA Balance	21,734,834	24 353 387	26,243,191	27,993,304	32 634,509	35,822,493	39,620,231	43,524,568	46,595,703	49,478,876	50,488,050	52,735,438
t, 18+15	End Batance Botore Interest	24,238,454	28,122,071	27,858,051	32,483,317	35,651,778	39,754,497	43,618,477	46,370,218	49,250,210	50,238,758	52,460,408	54,029,280
	Balance Subject to Interest	22,986,644	25,237,729	27,050,621	30,238,311	34,143,143	37,788,495	41,618,354	45,097,392	47,922,957	49,858,816	51 474 227	53,382,359
L9 L8 x (8% or 1.75%) + 12	Interest Endino RBA Batance	114,933	26.248.260	27,883,304	32,634,509	35,622,493	39,943,440	43,824,568	46,595,703	49,469,825	50,488,050	52,717,779	54,286,182
	Target vs Actual Difference:											401	936 866 36
	Recorded Adjusted Revenues - Unadjusted	38,621,842 (59)	38,384,038	41,840,204	37,944,203	40,909,646 (58)	41,328,298	38,445,423 (94)	(63)	879'97'97' (76)	70.04	970'97	(62)
	Reviews Revenues	18 62 1 597	38,383,789	41.639.957	37.943.870	40,909,297	41.327.986	39.445.173	41,323,906	38,638,327	40,476,639	38,528,100	35,027,943
	Tarpot	41,125,462	40,152,722	43,255,084	43,980,356	45,538,102	46,940,073	45,011,146	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099
		2,503,865	1,768,933	1,615,107	8,036,486	4,628,805	5,612,087	5,565,973	4,205,801	4,194,660	2,351,538	3,472,631	2,617,156
AS REVISED		Mar-12	Apr-12	May-12	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13
:		60, 30, 11	20.00	790 330 67	43 040 55	46 630 100	46 640 073	371 110 37	45 530 707	40 823 187	274 NEB CA	42 000 731	17 645 099
5 2	Monthly Larger Revenue Recorded Adjusted Revenue	38.621.597	38,363,769	41.639,957	37,943,870	40,909,297	41,327,888	39,445,173	41,323,908	38,638,327	40,478,839	38,528,100	35,027,943
2:12	Target vs. Actual Revenue	2,503,865	1,766,933	1,615,107	8,038,488	4,628,805	5,612,087	5,585,873	4,205,801	4.194.960	2,351,538	3,472,631	2,817,156
	Reversal of Previous Year Accrual				(1,548,140)	(1,611,187)	(1,679,771)	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,381)	(1,499,941)	(1,322,999)
t1+H 51	Not RBA Change	2,503,865	1,788,933	1,615,107	4,490,346	3,017,618	3,932,316	3,996,498	2,545,904	2,654,804	760,155	1,972,690	1 294 157
	Beginning RBA Balance	21.737.960	24 324 /85	20,246,663	447'189'17	32,030,002	33,621,136	38,025,232	48 175 740	40,001,203	50 244 916	52 488 929	54 078 148
[/ [8:[5]	End Balance Before Interest Referen Subject to Interest	22 989 912	25.241.281	27.054.419	30,242,417	34.147.610	37,793,316	41.623.479	45,102,797	47,928,665	49,684,839	51,480,582	53,389,069
LB LB x (6% or 1.75%) + 12	Interest	114,950	128,206	135.272	151,212	170,738	188,967	208,117	225,514	239 643	249,324	257,403	266,945
	Ending RBA Balanco	24,356,795	26,251,934	27,997,244	12,638,802	35,827,158	39,948,442	43,629,845	46,601,263	49,495,710	50,494,240	52,724,332	54,303,093
	Revised Adjustment to Revenue	2,503,865	1,788,933	1,615,107	6,038,486	4,628,805	5,612,087	5,565,973	4,205,801	4,194,880	2,351,536	3,472,631	2,617,156
	RBA Adjustment Recorded to Revenue	2,503,620	1,768,684	1,614,860	6,038,153	4,625,456	5,611,775	5,565,723	4,205,545	4,194,583	2,351,281	3,472,300	2,616,641
	Adjustment to Revenue	245	549	247	333	349	312	220	258	297	275	331	315

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HAWAIIAN ELECTRIC COMPANY, INC.
NOV 2015 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER	VENUE TRACKER													Ž V
AS PREVIOUSLY STATED		Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	001-13	Nov-13	Dec-13	Jan-14	Feb-14	ASE
110 17-12 110 17-12 110 17-12 111 11-12 111 11-12 111 11-12 111 11-12 111 11-12 111 11-12 111 11-12 111 11-12 111 11-12	Monthly Target Rovenue Rocarded Adjusted Revenue Traget vs. Actual Revenue Reversal of Previous Year Accural Net RBA Change Net RBA Change End Bühner Batione Interest Balance Subject to Interest Interest Ending RBA Babance	42,000,731 39,726,528 2,774,203 (1,486,048) 1,584,155 54,300,097 55,588,252 54,944,175 25,882,873	40,652,559 38,772,031 1,890,528 1,493,978 38,550 56,633,424 56,439,974 56,246,699 56,721,208	43,783,724 40,347,419 3,418,305 (1,589,384) 1,827,821 28,721,208 58,721,208 58,721,208 57,635,169 288,176 58,837,305	46, 145,218 40,280,887 5,654,231 4,107,427 1,746,604 50,582,453 59,709,051 298,545 60,680,899	42,632,763 42,632,763 4,840,879 514,022 60,813,584 61,470,805 305,653	49,250,622 43,660,012 5,570,610 (4,465,163) 1,105,447 10,5447 10,5447 110,488 62,085,528 110,488 62,982,750	47,289,315 41,809,165 5,380,150 5,380,150 1,102,745 63,126,164 63,126,169 63,677,537 318,388 64,547,297	47,634,122 42,532,492 5,201,630 (4,415,078) 846,552 84,552,840 65,303,302 84,978,116 324,601 65,724,273	45,001,122 40,870,680 4,130,432 (4,192,803) 27,628 65,724,351 65,736,165 328,691 68,080,871	45,001,122 3,022,320 (4,25,250) (4,25,250) (4,25,250) (4,25,250) (4,25,250) (4,25,250) (4,25,250) (4,25,250) (6,25,250) (6,128,072 (6,128,072	44,128,429 40,155,441 3,973,982 (3,925,518) 48,472 66,185,006 66,233,478 66,209,472 68,209,242 331,646 68,584,524	39,553,044 37,871,094 (3,681,950 (3,761,214) (2,079,284) 66,564,524 66,524,892 65,524,892 85,524,892 85,524,892 85,524,892 86,485,280 86,634,802 86,634,802 86,634,802 86,634,802	265755555
	Target vs Actual Oliforonce: Recorded Adjusted Revenues - Unadjusted Revised Revenues Target	39,226,528 (60) (251) 39,226,217 42,000,731 2,774,514	36,772,031 (84) (183) 36,771,73 40,652,559 1,660,786	40,347,419 (7.1) (172) 40,347,176 43,763,724 3,416,549	40,290,887 (58) (332) 40,290,589 48,145,218 5,854,819	(56) (58) (388) 42,636,320 47,779,842 4,941,322	43,680,012 (74) (217) 43,679,721 48,250,622 5,570,901	41,909,185 (77) (77) (219) 41,508,879 47,259,315 5,380,438	42,572,482 (74) (229) (229) 42,572,189 47,834,122 5,281,833	40,870,690 (76) (210) 40,870,404 45,001,122 4,130,718	41,178,802 (71) (228) 41,178,504 45,001,122 3,822,618	40,155,441 (65) (258) 40,155,118 44,129,428 3,874,311	37,871,094 (68) (736) 37,870,789 38,553,044 1,682,255	
AS REVISED		Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Fob-14	AS B
11 1-15 12 11-15 13 11-15 14 18 18-13 18 18-13 19 18-13 19 18-13 10 17-10	Monthly Target Revenue Recorded Adjusted Revenue Tropto v. Auchain Revenue Reversal of Previous Year Accrual Reversal of Previous Year Accrual Replanter REA Change CE End Baginning RBA Bustone End Bathore Bustone Interest Interest Ending RBA Babnce	42,000,731 39,226,217 2,774,514 (1,455,048) 1,265,468 54,595,464 54,591,231 274,756 55,670,220	40,652,559 38,77;773 1,880,786 (1,43),878) 38,808 56,080,871 56,447,478 56,254,075 281,270 56,728,750	43,763,724 40,347,776 3,416,548 (1,586,344) 1,628,194 58,556,914 57,642,632 288,214 58,845,128	48,145,218 40,290,599 5,654,619 (4,107,427) 1,747,192 59,73,70 59,77,068 288,585 60,689,250	42,538,320 4,941,322 (4,429,853) 514,465 60,921,845 61,429,310 81,729,078 305,895 81,742,208	49,250,622 43,679,721 5,570,801 (4,465,183) 1,105,738 61,565,541 62,661,278 62,108,410 310,542 62,971,820	47,289,315 41,808,878 5,380,436 (4,277,405) 1,103,031 63,135,234 64,238,288 63,688,750 318,434 64,556,689	47,834,122 42,572,189 5,261,933 (4,415,078) 846,855 84,852,242 84,895,870 324,828 85,734,025	45,001,122 40,870,404 4,130,718 (4,102,803) 27,915 85,794,103 85,782,019 85,782,019 85,782,019 86,782,019 86,782,019 86,782,019 86,782,019 86,782,019	45,001,122 41,178,504 3,522,618 (4,256,258) (4,256,258) 66,204,031 65,808,392 68,024,712 330,124 69,138,518	44,128,428 40,155,118 3,974,311 (3,975,518) (4,755 66,195,44,238 66,244,238 66,244,238 66,244,238 66,248,238 66,248,238 66,248,238 66,248,238 66,248,238 66,248,238 66,248,238 66,248,238 66,248,238 66,248,238 66,248,238 66,248,238	39,553,044 37,870,789 1962,255 (3,781,214) (2,078,959) 84,553,658 327,878 327,878 85,533,688	252785255
	Revised Adjustment to Rovenuo RBA Adjustment Recorded to Revenuo Adjustment to Revenue	2,774,514	1,880,788 1,880,528 258	3,416,548 3,416,305 243	5,854,818 5,854,231 388	4,840,879 4,840,879 443	5,570,901 5,570,610 291	5,380,436 5,380,150 286	5,261,833 5,261,630 303	4,130,718 4,130,432 286	3,822,618	3,974,311 3,973,988 323	1,682,255 1,681,950 305	

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HAWAIIAN ELECTRIC COMPANY, INC.
NOV 2016 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

ENUE BALANCING ACCOUNT - REVENUE TRACKER	VENUE TRACKER										ļ			REVE
REVIOUSLY STATED		Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	AS PI
21-13	Monthy Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue	44,129,429 40,445,741 3,683,888	42,712,929 39,888,701 2,824,228	45,981,778 41,326,526 4,655,250	48,725,408 43,277,375 5,448,033	50,451,219 45,900,584 4,550,835	52,004,448 48,563,655 5,440,784	49,933,476 45,456,699 4,476,777	50,508,746 46,193,856 4,314,890	47,517,340 43,033,461 4,483,879	47,517,340 42,608,961 4,708,379	48,598,907 41,131,344 5,485,563	41,764,835 38,865,462 2,796,173	599:
e-13	Reversal of Previous Year Accrual Net RSA Change	(3,910,840) (228,952)	(1,049,273)	494,737	(5,518,592) (70,558)	(5,956,735)	(8,117,973) (677,079)	(8,024,188) (1,547,411) 62,387,427	(8,133,236) (1,818,346) 60,848,758	(5,514,770) (1,030,891) 59,205,801	(5,430,235) (721,858) 58,455,031	(5,141,776) 323,787 57,781,569	(4,873,416) (2,077,243) 58 179 894	333
18 + L5 (18 + L7) + 2 or (L6 + L7) + 2 + [1]	Deginiting KDA Bolance End Balance Before Interest Balance Subject to Interest	64,603,810 64,717,086	63,651,603 64,176,239	64,155,611 39,641,545	64,141,988 39,205,893	62,793,063 36,789,775	62,183,783 38,194,875	60,720,018 37,568,514	59,029,912	58,174,910	57,733,175	58,115,358 35,403,770	56,102,651	1531
LB x (6% or 1,75%) + 12 L7 + L9	Interest Ending RBA Balance	64,697,989	93,590 63,745,193	58,936 64,212,547	57,175 64,199,163	56,568 62,849,531	55,701 62,239,464	54,785 60,774,801	53,399 59,083,311	52,287 58,227,187	51,756 57,784,931	58,166,986	56,153,558	e ŝ
	Taggs ve Actual Diflerence: Recorded Adjusted Revenues - Unadjusted Billing Adjustements 1 Rilling Adjustements 1	40,445,741 (64)	39,858,701 (67)	41,328,528 (72)	43,277,375 (58) (285)	45,800,584 (57)	46,563,655 (84)	45,456,699 (91) (282)	46,193,656 (81) (253)	43,033,481 (79) (262)	42,808,961 (59)	41,131,344 (88)	38,968,462 (76) (271)	
	Revised Revenues	40,445,415	39,868,363	41,326,296	43,277,022	45,900,158 50,451,219 4,551,081	46,583,323 52,004,449 5,441,128	45,456,347 49,933,476 4,477,129	46,193,522 50,508,748 4,315,224	43,033,120 47,517,340 4.484.220	42,808,585	41,130,968 48,596,907 5,485,941	38,868,115 41,764,635 2,786,520	
,		* io.	2,824,340	904,555,4	000000000	100,150,1	27							
EVISED		Mar-14	Apr-14	May-14	Jun-14	101-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	ASRI
•	Monthly Tergot Revenue Recorded Adjusted Revenue	44,129,429	42,712,929	45,981,778	48,725,408	50,451,219 45,900,158	52,004,448	49,933,476	50,508,746 48,183,522	47,517,340	47,517,340 42,808,585 4,708,755	46,596,907 41,130,966 5,465,941	41,784,635 38,968,115 2,796,520	500
7 :	leigot vs. Actual Koverius Reversal of Previous Year Accrusi	(3,910,840)	(3.873,501)	(4,160,513)	(5,516,592)	(5,956,735)	(6,117,873)	(6,024,188)	(8.133,238)	(5,514,770)	(5,430,235)	(5,141,776)	(4,873,416)	155
£1. •	Nei KBA Change Beginning RBA Balance	64,641,735	(1,046,933) 64,712,392	63,672,724	(10,200) 64,224,637	84,211,618	62,873,735	62.280.663	60,861,857	59,219,748	58 469 330	57,808,257	58,194,974	9 !
18 + L5 (L6 + L7) + 2 or (L6 + L7) + 2 + [1]	End Balance Before Interest Balance Subject to Interest	64,615,108	63,663,436	39,048,855	39,213,387	38,797,514	62,196,988 38,202,852	37,574,708	59,043,544 36,625,196 53,412	35,882,582	57,747,850 35,498,538 51,780	35,412,859	56,118,078 34,916,922 50,921	222
L7 + L9	interest Ending RBA Batance	FF.136	63,757,043	64,224,637	64,211,618	62,862,524	62,252,700	60,788,400	59,097,256	58,241,498	57,789,618	56,152,066	56,168,999	70
	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	3,684,014 3,683,688 328	2,824,546 2,824,228 318	4,655,480 4,655,250 230	5,448,388 5,448,033 353	4,551,081 4,550,835 428	5,441,128 5,440,794 332	4,477,128 4,478,777 352	4,315,224 4,314,690 334	4,484,220	4,708,755 4,708,379 376	5,465,941 5,465,583 378	2,796,520 2,796,173 347	

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INUE BALANCING ACCOUNT - REVENUE TRACKER	VENUE TRACKER												
ZEVIQUSLY STATED		Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Fab-16
สาก	Monthly Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue	48,596,907 42,716,788 3,880,119	45,101,204 42,125,471 2,875,733	48,552,827 43,533,632 5,019,185	48,047,584 41,994,944 8,052,640	51,228,633 47,281,491 3,945,142	52,792,780 49,482,250 3,330,530	50,702,234	51,284,900 45,880,541 5,424,359	48,247,991 46,028,249 2,219,742	48,247,891	47,308,877	42,407,239 41,404,808 1,002,431
ពៈភ	Reversal of Previous Year Accrual Net RBA Change Bedianles DBA Between	(5,192,949) (1,312,830) 54 (70,974	(5,327,198) (2,351,465) 54 P10 779	(5,401,784) (382,589) 52,627,239	(3,665,156) 2,387,484 57,304,205	(5,301,934) (1,356,792) 54,740,597	(5,577,653) (2,247,123) 53,446,936	(5,375,270) (2,050,638) 51,234,324	(5,110,063) 314,286 49,251,829	(2,852,908) 49,610,143	(1,752,293)	(559,014)	(3,379,084) 44,879,617
(6 + L7) + 2 or (6 + L7) + 2 + [1]	End Batance Before Interest Balance Subject to Interest	33,913,845	52,559,314	52,244,650 32,033,118	32,681,888	53,383,805	51,199,813	49,183,685	49,566,125	46,757,235 28,435,418 42,027	45,048,027 28,055,078	44,528,927 27,374,083	41,500,533 28,384,817 38,478
L8 x (6% or 1,75%) + 12 L7 + L9	Interest Ending RBA Balance	49,458 54,907,604	47,872 52,607,186	52,291,385	54,739,350	53,431,969	46,428 51,246,428	49,228,418	49,610,143	48,800,162	45,088,941	44,569,848	41,538,011
	Target vs Actual Otiferance: Recorded Adjusted Revenues - Unadjusted Billing Adjustments 1	42,716,788 (66) (793)	42,125,471 (77) (328)	43,533,632 (75) (340)	41,994,944 (69) 85	47,281,491 (63) (305)	49,462,250 (96) (316)	47,377,603 (91)	45,880,541 (85) (380)	46,028,249 (38) (359)	45,122,845 (74) (383)	43,233,334 (73) (743)	41,404,808 (81) (352)
	Roylsod Royenucs	42,716,429	42,125,068	43,533,217	41,994,960	47,281,123	49,481,838	47,377,198 50,702,234	45,880,078	48,027,802	45,122,188	43,232,917	41,404,375
		3,880,478	2,976,136	5,019,610	8,052,624	3,945,510	3,330,942	3,325,036	5,424,824	2,220,189	3,125,803	4,075,760	1,002,864
EVISED		Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16
	Monthly Tomas Revenue	46.598.907	45.101.204	48.552.827	48.047.584	51,228,633	52,782,780	50,702,234	51,284,900	48,247,991	48,247,991	47,308,677	42,407,239
:	Recorded Adjusted Revenue	42,716,429	42,125,088	43,533,217	41.994,960	47,251,123	49,461,838	3 325 038	45,860,076	46,027,602	3,125,803	43,232,917	1,002,884
נו : ג	Reversal of Previous Year Accrual	(5,182,949)	(5,327,188)	(5,401,784)	(3,665,158)	(5,301,934)	(5,577,653)	(5,375,270)	(5,110,063)	(5,072,650)	(4.677,639)	(4,834,357)	(4,381,515)
u.n	Nei RBA Change	(1,312,471)	(2,351,082)	(382,174)	2,387,468	(1,356,424)	(2,248,711)	(2,050,234)	314,761	(2,652,481)	(1,751,838)	(558,597)	(3,378,651)
18 • 1.5	Sopporting Now Balance End Balance Before Interest	54,673,948	52,575,531	52,261,297	54,708,335	53,400,834	51,217,269	49,201,561	49,584,482	48,778,054	45,067,319	44,549,653	41,520,710
(LB + L7) + 2 or (LB + L7) + 2 + [1]	Balance Subject to Interest	33,923,388	32,836,524	32,043,181	32,692,070 47,878	33,036,889	31,974,887	30,683,478	30,195,016	29,446,776	28,066,724	38,007	38,397,010
L7 + L9	Interasi Ending RBA Balance	54,923,418	52,623,418	52,308,027	54.756.011	53,449,013	51,263,899	49,246,308	49,628,518	46,818,997	45,108,250	44,588,591	41,559,206
	Revised Adjustment to Revenue	3,880,478	2,976,136	5,019,610	6,052,624	3,945,510	3,330,842	3,325,038	5,424,824	2,220,189	3,125,803	4,075,760	1,002,664
	RBA Adjustment Recended to Revenue Adjustment to Revenue	3,550,119	2,875,733	5,019,185	6,052,840	3,945,142	3,330,530	3,324,831	5,424,359	2.219,742	3,125,346	4,075,343	1,002,431

HECO-WP-B-013 HAWAIIAN ELECTRIC COMPANY, INC. NOV 2018 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

AS PREVIOUSLY STATED		Mar-16	Apr-16	May-16	Jun-16	Jub-16	Aug-16	Sep-16	Oct-16		
5	Monthly Target Revenue	47,308,877	45,793,747	49,296,788	50,202,656	51,980,780	53,581,111	51,447,350	52,040,081		
2	Recorded Adjusted Revenue	43,945,283	42,792,611	46,044,783	44,354,039	47,632,181	49,694,341	46,441,855	47,122,581		
11.12	Tarnet vs. Actual Revenue	3.363.414	3.001.138	3 252 025	5.848.617	4 348 829	3,886,770	5,005,495	4.917.480		
:	Reversal of Provious Year Accrual	(4 548 813)	(4,608,612)	(4,848,387)	(3.792.832)	(4, 131, 705)	(4,323,881)	(4,085,664)	(4,075,714)		
E 77 31	Net DRA Chapes	(1 185 300)	(3 607 476)	11 508 3821	2 055 985	218 924	(437,111)	919.831	541.788		
		44 000 775		100000000000000000000000000000000000000	17 517 811	30 070 300	20 070 677	70 775 05	77.17.07		
	degining ray palance	1 200	V	29,01	00.00	20,010,00	20,220,00	200			
_	End Batance Before Interest	40,484,376	39,028,728	37,480,878	39,593,516	39,887,133	39,485,481	40,295,596	41,183,200		
LB (LB + L7) + 2 + [1]	Balance Subject to Interest	25,093,985	24,332,432	23,384,678	23,559,861	24,300,790	24,255,184	24, 335, 678	24,901,699		
	Interest	36,595	35.485	20.75	34,358	35,439	35,372	35,490	38,315		
110 17+19	Frating RBA Batance	40 520 971	39.062.213	37 514 982	39,628,174	39 922 572	39,520,833	40,331,086	41,219,515		
i i											
	Tamel vs Actual Difference:									Tetal Billing	
	Recorded Adjusted Reynautes - Unadjusted	43 945 283	42,782,811	46 044 763	44,354,039	47,632,161	49,694,341	48,441,855	47, 122, 581	Adjustment	
	Ritting Adjustrants 1	(QL)	(83)	(88)	(52)		•		•	(4,457)	
	Riffino Adirestraente 2	(385)	(332)	3	3	(437)	GS0)	(82)		(17.151)	
	Boylead Boyanins	43 944 799	42 792 196	46 044 333	44 353 546	47 631 724	49 693 891	48.441.760	17 122 581	(21,608)	
	Tomos	47 308 677	45 793 747	49 296 788	50 202 656	51.980.790	53,581,111	51,447,350	52,040,061		
		3,363,878	3,001,551	3,252,455	5,849,110	4,349,068	3,687,120	5,005,590	4,917,480		
							-				
AS REVISED		Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sap-16	Oct-16		
		i							:		
5	Monthly Torget Revenue	47,308,877	45,793,747	49,286,788	50,202,656	51,980,790	53,581,111	51,447,350	52,040,081		
בי	Recorded Adjusted Revenue	43,844,799	42,792,196	46,044,333	44,353,548	47 631 724	49,693,991	46,441,780	17,122,581		
21-13 ET	Target vs. Actual Revenue	3,363,878	3,001,551	3,252,455	5,849,110	4,349,066	3,687,120	5,005,590	4,917,480		
	Reversal of Previous Year Accrual	(4,548,613)	(4,608,612)	(4,848,387)	(3,792,632)	(4,131,705)	(4,323,881)	(4,085,884)	(4.075,714)		
13 14-13	Net RBA Change	(1,184,935)	(1,507,061)	(1,595,932)	2,056,478	217,361	(192,781)	919,728	841,766		
2	Beginning RBA Batance	41,689,970	40 654 882	39 098,352	37,559,391	39,692,282	39,945,102	39,388,888	40,364,449		
17 18 15	End Balance Before Interest	40,505,035	39,047,921	37,502,420	39,615,869	39,909,643	39,508,342	40,318,591	41,206,215		
UB (L6 + L7) + 2 + [1]	Batance Subject to Interest	25,108,484	24,345,191	23,397,706	23,573,183	24,314,408	24,269,054	24,349,697	24,915,760		
	Interest	36,614	35,503	34,122	34,378	35,459	35,392	35.510	36,335		
L10 .L7 . L9	Ending RBA Balance	40,541,649	39,083,324	37,536,542	39,650,247	39 945 102	39.543 734	40,354,101	41,242,550		
	Revised Adjustment to Revenue	3,363,878	3,001,551	3,252,455	5,849,110	4,349,086	3,587,120	5,005,590	4,917,480	Total RBA	
	RBA Adjustment Recorded to Revenue	3,383,414	3,001,138	3,252,025	5,848,817	4,348,629	3,556,770	5,005,495	4,917,480	Adjustment	
	Adjustment to Revenue	484	415	430	493	437	350	88	,	21,608	

HECO-WP-8-014 HAWAIIAN ELECTRIC COMPANY, INC. NOV 2016 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGES

									-				
AS PREVIOUSLY STATED		Dec-13	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Aul-13	Aug-13	Sep-13	Oct-13	Nov-13
១១	Monthly Target Revenue Recorded Adissed Revenue	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	48,145,218	42,638,763	49,250,622	47,289,315	47,834,122	45,001,122
ส.า	Terpet vs. Actual Revenue	2,351,261	3,472,300	2,616,841	2,774,203	1,680,528	3,416,305	5,854,231	4,940,879	5,570,610	5,380,150	5,251,630	4,130,432
3	Reversal of Previous Year Accrual	(1,581,381)	(1,499,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,588,384)	(4,107,427)	(4,426,057)	(4,465,163)	(4,277,405)	(4,415,078)	(4 102 503)
2. 2.	Net RBA Change	759,860	1,972,359	1,293,842	1,288,155	386,550	1,827,921	1,746,804	514,022	1,105,447	1,102,745	846,552	27 628
	Beginning RBA Bolance	49,478,876	50,488,050	52,735,438	54,300,097	56,053,424	56,721,208	58,635,649	60,913,594	61,548,805	63,126,164	64,552,840	65,724,35
51 18 12	End Balance Before Interest	50,238,756	52,480,408	54,029,280	55,588,252	56,439,974	56,549,129	60,582,453	61,427,616	62,652,252	64,228,909	65,399,392	65,751,980
LB (L6 + L7) + 2 or (L6 + L7) + 2 + [1]	Balance Subject to Interest	49,858,816	51,474,227	53,382,359	54,944,175	56,246,699	57,635,169	59,709,05	61, 170, 805	62,099,528	63,677,537	64,976,116	65, 738, 165
L8 L8 x (6% or 1.75%) + 12	Interest	249,294	257,371	266,912	274,721	281,233	288,176	298,545	305,853	310,498	318,385	324,681	328,691
61 - 12 - 13	Ending RBA Balance	50,488,050	52,717,779	54,286,192	55,862,973	56,721,208	50,837,305	60,680,999	61,733,470	62,962,750	64,547,297	65,724,273	68,080,671
	Toront on Artist Officence.												
	Recorded Adjusted Revenues - Unadjusted	40,479,114	36,528,431	35,028,258	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,909,165	42,572,492	40,870,690
	Billing Adjustments 1	(211)	(20%)	(22)	(248)	(52)	(277)	(58)	(291)	(281)	(28	(23)	(360)
	Billing Adjustments 2	100 440 001	30 638 934	. 100 000 34	. 200, 00		- 40.04	. 000.07		43.670.721	41 908 874	42 572 201	011 028 07
	Target	42,630,375	42,000,731	37,645,099	42,000,731	40,652,559	43.763.724	46,145,218	47 779 642	19,250,622	47,289,315	47,834,122	45 001 122
		2,351,472	3,472,506	2,617,065	2,774,451	1,880,787	3,416,562	5,854,522	4,941,170	5,570,901	5,380,441	5,281,921	4,130,792
				ļ							•		
			:	: 13		;		:		10.00	Con.11	3	Mon.41
AS REVISED			- Tall 13	77-85-17		ALIAS I	Marie	100	1	7	1 1 1 1 1	7	2011
=	Monthly Teroof Revenue	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,783,724	46,145,218	47,779,642	49,250,622	47,289,315	47,834,122	45,001,122
: 2	Recorded Adusted Revenue	40,478,903	38,528,225	35,028,034	39,226,280	38,771,772	40,347,142	40,290,698	42,838,472	43,679,721	41,908,874	42,572,201	40,870,330
ฮ-เา ย	Target vs. Actual Revenue	2,351,472	3,472,506	2,617,065	2,774,451	1,680,787	3,416,582	5,854,522	4 941 170	5,570,901	5,380,441	5,261,921	4,130,792
3	Reversal of Previous Year Accrual	(1,581,381)	(1.499.941)	(1, 322, 999)	(1,486,048)	(1,493,976)	(1,588,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4.415,078)	(4,102,803)
u w.u	Net RBA Change	160,091	1,972,56\$	1,294,066	1,288,403	386,609	1,826,198	1,747,095	\$14,313	1,105,738	1,103,036	846,843	27,989
	Beginning RBA Balance	49,478,876	50,488,262	52,735,650	54,300,743	56,054,322	56,722,371	58,637,095	60 915 339	61,548,850	63,128,511	64,555,490	65,727,306
	End Balance Before Interest	50,238,967	52,460,826	54 029 924	55,589,146	56,441,131	50,550,569	60,584,190	61 429 652	82,654,588	64,231,547	65,402,333	65,755,295
	Balance Subject to Interest	49,858,922	51,474,542	53,382,891	54,944,944	56,247,726	57,636,470	59,710,643	61, 172, 495	62,101,719	63,660,029	64,976,911	65,741,300
	Interest	249,295	257,373	266,914	274,725	281,239	255,182	298,553	305 062	310,509	318,400	324,895	328,707
L10 L7 + L9	Ending RBA Balance	50,488,262	52,718,199	54,296,638	55,883,871	56,722,371	58,838,751	60,882,744	61,735,515	62,965,097	64,549,947	65,727,228	66,084,002
	Revised Adjustment to Revenue	2.351.472	3.472.506	2.617.065	2.774.451	1,880,787	3,416,582	5.854.522	4,941,170	5,570,901	5,380,441	5,261,921	4,130,792
	RBA Adjustment Recorded to Revenue	2,351,261	3,472,300	2,616,041	2,774,203	1,880,528	3,416,305	5,654,231	4,940,879	5,570,610	5,380,150	5,281,630	4,130,432
	Adjustment to Revenue	211	Ŕ	224	248	259	211	291	291	182	5	Ē	360

Note [1]
In correction with Decision and Order No. 31908 on Schadule A of the Decoupling investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its bar resulted to a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a net-of-income tax RBA balonce, and the following income tax factor is used in the calculation.

Income Tax Factor (1 / 1-tax rate) 1,635929121

Note [2] Totals may not add exactly due to rounding.

Note [3]
The Company recorded adjustments to the RBA related to customer billing adjustments due to J to G rate change that were processed in November 2016. The Company recorded adjustments to the billing adjustment in the prior months incurred. No interest impact was calculated as the adjustment did not meet the interest realectables by the Revenue Balanding Account provision staff.

HECO-WP-8-014
HAWAIIAN ELECTRIC COMPANY, INC.
NOV 2018 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGES

REVENUE BALANCING ACCOUNT - REVENUE TRACKER	EVENUE TRACKER												
AS PREVIOUSLY STATED		Dec-13	41-04F	Fob-14	Mnr-14	Apr-14	May-14	Ann-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14
5	Monthly Target Revenue	45,001,122	44,129,429	39,553,044	44,129,429	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449	49,933,476	50,508,746	47,517,340
27.	Recorded Adjusted Revenue	41,178,802	40,155,44	37.871.094	40,445,741	39,556,701	41,326,326	5.277,375	45,900,364	5.440.794	4.476.777	4.314.890	4.453.679
	Reverse of Draving Year Acress	14.255.2581	(3.925.516)	(3.761.214)	(3.910.640)	(3.873.501)	(4, 160, 513)	(5.518.592)	(5,956,735)	(6,117,873)	(6.024.188)	(6,133,236)	(5,514,770)
15 14 13	Net RBA Change	(432,938)	48,472	(2.079.264)	(226,952)	(1,049,273)	494.737	(70,559)	(1,406,100)	(677,079)	(1,547,411)	(1,818,345)	(1,030,891)
	Beginning RBA Balance	66,230,945	66,185,006	66,564,524	64,830,562	64,700,876	63,560,874	64,212,547	64,199,163	62,850,842	62,287,427	60,848,258	59,205,801
	End Balance Before Interest	65,798,007	66,233,478	64,485,280	64,603,610	63,651,603	64,155,611	64,141,988	62,793,063	62,183,763	60 720 016	59,029,912	58,174,910
	Balance Subject to Interest	66,014,476	66,209,242	65 524 892	64.717.086	64,176,239	39,041,545	39,205,693	38,789,775	38,194,875	37,568,514	36,616,787	35,653,836
(1) (3×(5% or 1,75%) + 12	Interest Forting RBA Batance	50,072	56,564,524	327,524 64,612,834	64.697.989	63,745,193	30,930	64,189,163	62,849,631	62,239,464	60 77 801	59,063,311	58,227,197
i i													
	Target vs Actual Oifference:												
	Recorded Adjusted Revenues - Unadjusted	41,178,802	40,155,441	37, 871, 094	40,445,741	39,888,701	41,328,528	43,277,375	45,900,584	48,563,655	45 456 699	46,193,856	43,033,461
	Billing Adjustments 1	(240)	(545)	(232)	(23g)	(291)	(291)	(28)	٠ أ	. (. (. ((3)
	Billing Adjustments 2				2	(2/8)	(02)	(283)	(285)	(682)		(687)	
	Revised Revenues	41,178,562	40,155,196	37,870,862	12,62,14	19,585,131	45.981.776	43,276,801	50.451.219	52.004.449	49 933 476	50,508,746	47,517,340
		3,822,560	3,974,233	1 682 182	3,683,995	2,824,798	4,655,028	5,448,607	4,550,920	5,441,079	4,477,062	4,315,175	4,484,192
AS REVISED		Dec-13	Jan-14	Fcb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14
	•				1			**************************************	414 131 43	077 700 53	927 110 07	£0 £00 748	47 517 140
5	Monthly Target Revenue	45,001,122	44,129,429	39,553,044	44, 29,429	42,7 2,929	977,188,04	89, 42, 408	90,101,00	34,004,44	0.4.000.00	30,300,140	0 7 7 0 7
	Recorded Adjusted Revenue	41,178,562	40,155,196	37,870,862	40,445,434	39,656,131	41,325,950	43,276,801	45,900,299	46,563,370	13.65	40,193,5/1	43,033,146
2 r: 2	Target vs. Actual Revenue	3,822,560	3,974,233	1,682,152	3,553,040	2,624,/98	078.000	7,440,007	028,000,9	0,000,000	4.477,002	4,515,175	(5, 514, 77m)
14 24 - 24 - 25	Reversal of Previous Year Accruai	(907'007'4)	(010,024,4)	(5,701,514)	(3,910,640)	(10,07,070)	495.113	(69 985)	(1405.815)	(678.794)	27.128	(1.818.061)	(1,030,578)
	Regination RBA Balance	68 234 276	66.188.595	66.568.377	64.834.667	64.705.294	63,665,869	64 215 122	64,205,317	62,867,267	62 274 164	60,855,286	59,213,122
77 18+15	End Balance Before Interest	65,601,578	66.237.312	64.489.345	64,605,022	63,656,591	64,161,182	64, 145, 137	62,799,502	62,190,494	60,727,038	59,037,226	58,182,543
	Batance Subject to Interest	66,017,927	66,212,954	65,528,851	64,721,345	64,150,943	39,044,773	39,209,474	38,793,622	38,198,899	37,570,717	36,621,168	35,858,506
	Interest	330,090	331,065	327,644	94,385	765,597	56,940	57,180	56,574	55,707	£ 791	53,406	52,294
61 + 1 → F1	Ending RBA Balance	66,131,668	66,568,377	64,616,969	64,702,407	63,750,188	64,218,122	64,205,317	62,856,076	62,246,201	60,781,529	59,090,632	58,234,837
	Revised Adjustment to Revenue	3,822,560	3,974,233	1,682,182	3,683,995	2,824,798	4,655,826	5,448,607	4,550,920	5,441,079	4,477,062	4,315,175	4,464,192
	RBA Adjustment Recorded to Revenue Adjustment to Revenue	3,622,320	3,973,986	232	3,663,686	576.228	978	574	4,330,633	285	285	285	313

HECO-WP-B-014
HAWAIIAN ELECTRIC COMPANY, INC.
NOV 2016 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGES

AS PREVIOUSLY STATED		Dac-14	Jan-15	Feb-15	Mar-15	Apr.15	Mny-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
The second secon													
5	Monthly Terget Revenue	47,517,340	46,596,907	41,764,635	46,596,907	45 101 204	48,552,827	48,047,584	\$1,226,633	52,792,780	50,702,234	51,284,900	48,247,991
	Recorded Adjusted Revenue	42,505,961	41, 131, 344	38,968,462	42,716,768	42,125,471	43,533,632	41,994,944	47,281,481	49,462,250	47,377,603	45,660,541	46,025,249
13 11-12	Target vs. Actual Revenue	4,705,379	5,465,563	2,798,173	3,650,119	2,975,733	5,019,195	6,052,640	3,945,142	3,330,530	3,324,631	5,424,359	2,219,742
	Reversal of Previous Year Accrual	(5,430,235)	(5,141,776)	(4,873,416)	(5,192,949)	(5,327,198)	(5.401.784)	(3,665,156)	(5,301,834)	(5,577,653)	(5.375.270)	(5,110,063)	(5,072,550)
15 14.13	Net RBA Change	(721,656)	323,767	(2,077,243)	(1,312,830)	(2,351,465)	(362,569)	2,367,464	(1,356,792)	(2,247,123)	(5,050,639)	314,796	(2,552,508)
9	Beginning RBA Balance	58,455,031	57,791,569	58,179,894	56,170,978	54,910,779	52,627,239	52,304,205	54,740,597	53,446,936	51,234,324	49,251,829	49,610,143
17 16 • 15	End Belance Before Interest	57,733,175	58,115,356	56,102,651	54,658,146	52,559,314	52,244,650	54,691,689	53,383,805	51,199,813	49 183 585	49,568,125	46,757,235
	Balance Subject to Interest	35,489,687	35,403,770	34,907,603	33,913,845	32,826,740	32,033,118	32,681,896	33,026,599	3.964.74	30,672,681	30, 183,944	59,435,416
LB LB × (6% or 1.75%) → 12	Interest	51,756	51,630	50,907	49,458	47,872	48,715	199'24	48,164	46,615	44,731	44,018	45 800 167
67 • 73	Ending May balance	20,000	90, 90	30°,50°,	100° 100° 10	24,021,100		2001000	and the fact				
					:	1	1						40000
	Recorded Adjusted Revenues - Unadjusted	42,808,961	41,131,344	38,968,462	42,716,788	42,125,471	43,533,632	1,994,944	47,281,491	49,462,250	41,311,503	196,000,541	40,020,249
	Buling Adjustments 1		. (386)	, ć	. (282)		. 0285)	. (285)	(285)	(285)	(285)	(285)	(285)
	Cump Adulatines &	22.2 000 CT		100	203 014 67	20.00	276 213 17	41 004 850	47 281 206	10.461.055	47 177 118	44 RED 256	46 027 984
	Keytsed Kevenues	47 517 340	46 596 907	41 764 635	46.596.907	45 101 204	48 552 627	48.047.584	51,226,633	52,792,780	50 702 234	51 284 900	48,247,991
		4 708 665	5 465 849	2 796 435	3.880.401	2 975 015	5.019.480	6.052.925	3,945,427	3,330,815	3,324,916	5,424,644	2,220,027
												:	
													:
AS REVISED		Pre-14	Jan-15	Feb-15	Mar 15	Apr-15	May-15	Jun-15	301-15	Aug-15	Sen-15	Oct-15	Nov-15
Ξ	Monthly Tergel Revenue	47.517.340	46.596.907	41,764,635	46.596.907	45,101,204	48,552,827	48,047,584	\$1,226,633	52,792,780	50,702,234	51,284,900	48,247,991
2:	Recorded Adjusted Revenue	42,608,675	41, 131,058	38.968.200	42,718,506	42,125,189	43,533,347	41,994,659	47,281,206	49,461,965	47 377 318	45,060,256	46,027,964
11:12	Target vs. Actual Revenue	4 708 665	5.465.849	2,796,435	3,680,401	2,976,015	5 019 480	6,052,925	3,945,427	3,330,815	3 324 916	5,424,844	2,220,027
	Reversal of Previous Year Accrual	(5,430,235)	(5, 141, 776)	(4,873,416)	(5,192,949)	(5,327,198)	(5,401,784)	(3,665,156)	(5,301,934)	(5,577,653)	(5.375,270)	(5,110,063)	(5.072,650)
20.57	Net RBA Change	(721,570)	324,073	(2,076,981)	(1,312,548)	(2,351,183)	(382,304)	2,387,769	(1,358,507)	(2,246,838)	(2,050,354)	314,581	(2,852,623)
3	Beginning RBA Balance	55,462,671	57, 799, 502	58,188,121	56,179,472	54 910 564	52,638,314	52,313,574	54,750,260	53,456,693	51 244 576	49,262,375	49,620,985
	End Balance Before Interest	57,741,101	58,123,575	56,111,140	54.868,924	52,568,381	52,254,011	54,701,343	53,393,753	51,210,056	49, 194, 222	49,578,957	46,768,362
	Balance Subject to Interest	35,494,442	35,408,704	34,912,709	33,919,122	32,832,193	32,038,750	32,557,706	33,032,509	026,016,11	10,070,05	30.180.47	071,244,120
	Interest	51,763	51,638	50,914	49,465	47,580	46,723	47.570	48,173	45,024	2	44 020	42,330
ET + CT 017	Ending RBA Balance	57,792,664	54,175,213	56,162,054	54,918,389	52,616,261	52,300,734	54,749,013	53,441,926	51,256,680	49,238,962	49,620,985	46,811,293
	Revised Adjustment to Revenue	4,708,665	5,465,649	2,796,435	3,680,401	2,976,015	5,019,480	6,052,925	3,945,427	3,330,615	3,324,916	5,424,844	2,220,027
	Adjustment to Revenue	288	286	262	282	282	265	265	285	285	285	265	285
			i	i									

HECO-WP-8-014
HAWAIIAN ELECTRIC COMPANY, INC.
NOV 2016 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO 7 TO G RATE CHANGES

				ľ					ŀ				
AS PREVIOUSLY STATED		Dec-15	Jrn-18	Feb-16	Mar-19	Apr-16	Mny-16	Jun-19	Jul-16	Aug-16	Sep-16	Oct-16	
	Monthly Target Revenue Beneded Adjusted Basemie	48,247,991	47,308,677	42,407,239	47,308,677	45,793,747	49 296 768	50,202,656	51,980,790	53,581,111	51,447,350	52,040,061	
	Torget vs. Actual Revenue	3,125,348	4,075,343	1,002,431	3,363,414	3,001,136	3,252,025	5,848,617	4,348,629	3,866,770	5,005,495	4,917,480	
	Reversal of Previous Year Accrual	(4,877,639)	(4,634,357)	(4,381,515)	(4,548,813)	(4,608,612)	(4 548 387)	(3,792,632)	(4.131,705)	(4,323,881)	(4 085 864)	(4.075.714)	
	Net RBA Change	(1,752,293)	(559,014)	(3,379,084)	(1,165,399)	(1,607,478)	(1.596.362)	2,055,965	216,924	(437,111)	919,631	8/1	
	Beginning RBA Balance	46,800,320	45,088,941	44,879,617	41,669,775	40,634,204	39.077.241	37,537,631	19,670,209	39,922,572	39,375,865	40 34 434	
	End Batance Before Interest	45,048,027	44,529,927	41,500,533	40,484,378	39,026,728	37, 480, 879	39,593,516	39,887,133	39,485,461	40,295,596	163.200	
(UB - L7) + 2 + [1]	Balance Subject to Interest	28,055,078	27 374 003	26.384.817	25,093,985	24,332,432	23 384 678	23,559,861	24,300,790	24,255,184	24,335,678	24,901,699	
L8 x (6% or 1.75%) + 12	Interest	40,914	39,921	38,478	36,595	35,485	34,103	35. 4	35,439	35,372	35,490	36,315	
	Ending RBA Balance	45,088,941	44,569,848	41,539,011	1/6'025'04	39,062,213	37,514,982	39,628,174	39,922,572	39,520,833	40,331,086	41,219,515	
	Target vs Actual Difference:	372 (6) 37	יוניגני	11 404 808	13 045 761	42 702 611	18 044 783	PTO 151 177	191 578 53	49 694 341	46 441 855	47 122 581	Tetal Biffing. Advotment
	Recorded Adjusted Neverties - Unadjusted	C*0'771'C*	CC CC7'C	00'10'	503,046,5	10,351,37	70.						(5.091)
	Billio Adherments 2	(285)	(288)	(286)	(288)	(285)	(285)	(270)	(279)	(279)	(285)	(276)	(8,850)
	Revised Revenues	45,122,359	43,233,048	41,404,522	43,944,975	42,792,326	48,044,477	44,353,769	47,631,862	49,694,062	48,441,570	47 122 305	(13,941)
	Tarpet	48,247,991	47 308 677	42,407,239	47,308,677	45,793,747	49 296 780	50,202,656	51,980,790	53,581,111	51.447.350	52.040.061	
		3,125,632	4,075,629	1,002,717	3,363,702	3,001,421	3,252,311	5,848,687	4,346,908	3,887,049	5,005,780	4,917,756	
				-				}					
		Dec-15	Jnn-16	Feb-16	Mar-16	Apr-16	Mny-16	Jun-18	81-1nt	Aug-16	Sep-16	Oct-16	
	;	,				200 200	2000	22 000 03	61 000 700		61.447.750	62 040 061	
	Mondily Target Revenue	66.742.04	1,900,01	42,107,239	110,000,11	49,785,747	001,000,00	30,202,030	01,000,15	40 604 067	18 441 570	17 172 105	
	Recorded Adjusted Revenue	65,121,54	2,233,040	71. 000	404 CAL C	1,001,421	25.2 111	4 RAB AR7	4 348 908	1 887 649	4,005,780	4 917 756	
	Larget vs. Actual Revenue	200.021.0	870 0 0 0	1002	30.505.5	(C. 000 1)	1, 610 197	CEO CO. C.	302 44 47	1109 151 4)	74 CR4 BS41	(4.075.714)	
	Keversas of Previous Tear Accruai	(800'110'4)	(00.00.)	(010,100,4)	(2.0.0.0.1)	(4,000,012)	(200,040,1)	2.052.032)	100.210	(418 813)	919 919	842 042	
	Nei Rish Change	(100,201,1)	(02,000)	(00 '010'0)	, 105, 10		1000000	1 5 5 7 5	10 4 10 10 10 10 10 10 10 10 10 10 10 10 10	10 016 062	30 780 746	£19 55£ 07	-
	Beginning Kti- Balance	000,110,04	270 100 27		000 000 07	750,000,00	17 401 785	30 507 003	10 000 01	10 499 230	40 109 661	41 197 555	
	Defend South to Interest	98,650,65	27 181 151	26,207,85	25 101 419	74 340 047	27, 142, 475	23 567 835	24 308 939	24.763.510	24,344,184	24.910.384	
La - (x) - 2 - [1]	foliated	PC6 QF	10 01	38 488	38 606	35 496	34.14	34.370	35.451	35,384	35,502	38 328	
The fact of	The second secon		27. 54. 570	******	305 553 47	10 074 011	37 527 800	20 441 173	10 01 8 052	10 574 614	20 745 165	41 233 883	
	Enong Kisa Balance	55,000.64	P/C' PC'++	790'EC'L		270,100,00	750, 170, 17		***************************************				
	Revised Adjustment to Revenue	3,125,632	4,075,629	1,002,717	3,363,702	3,001,421	3,252,311	5,648,687	4,348,908	3,687,049	5,005,780	4,917,756	Total RBA Adivsment
		286	286	582	288	285	286	270	279	279	285	276	13.941

HECO-WP-B-015 HAWAIIAN ELECTRIC COMPANY, INC. DEC 2016 ADJUSTMENT - MISCELLANEOUS J RATE BILLING ADJUSTMENT

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED		Nov-16	
L1	Monthly Target Revenue	48,957,962	
L2	Recorded Adjusted Revenue	43,941,301	
L3 L1 - L2	Target vs. Actual Revenue	5,016,661	
L4	Reversal of Previous Year Accrual	(3,736,832)	
L5 L4 + L3	Net RBA Change	1,279,829	
L6	Beginning RBA Balance	41,290,214	
L7 L6 + L5	End Balance Before Interest	42,570,043	
L8 (L6 + L7) + 2 + [1]	Balance Subject to Interest	25,615,115	
L9 L8 x 1.75% + 12	Interest	37,355	
L10 L7 + L9	Ending RBA Balance	42,607,398	
	Target vs Actual Difference: Recorded Adjusted Revenues - Unadjusted Billing Adjustments 1 Revised Revenues Target	43,941,301 4,878 43,946,179 48,957,962 5,011,783	Total Billing Adjustment 4,878 4,878
AS REVISED		Nov-16	
L1	Monthly Target Revenue	48,957,962	
L2	Recorded Adjusted Revenue	43,946,179	
L3 L1-L2	Target vs. Actual Revenue	5,011,783	
L4	Reversal of Previous Year Accrual	(3,736,832)	
L5 L4 + L3 L6	Net RBA Change Beginning RBA Balance	1,274,951 41,290,214	
L7 L6+L5	End Balance Before Interest	42,565,165	
L8 (L6 + L7) + 2 + [1]	Balance Subject to Interest	25,613,625	
L9 L8 x 1.75% + 12	Interest	37,353	
L9 L0 X 1.75% + 12 L10 L7 + L9	Ending RBA Balance	42,602,518	
CIO E/ + E9	Choing NDA balance	42,002,310	
	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue	5,011,783 5,016,661	Total RBA Adjustment
	Adjustment to Revenue	(4,878)	(4,878)
	,	(.,5. 0)	(.,0,0)

Note [1]

In connection with Decision and Order No. 31908 on Schedule A of the Decoupling Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its tax treatment of RBA revenues from the book accrual method of revenue balancing account ("RBA") revenue recognition to a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a net-of-income tax RBA balance, and the following income tax factor is used in the calculation.

Income Tax Factor (1 / 1-tax rate)

Note [2]

Totals may not add exactly due to rounding.

Note [3

The Company recorded an adjustment to the RBA related to miscellaneous J rate billing adjustment processed in December 2016. The Company recalculated the RBA based on the billing adjustment in the prior months incurred. No interest impact was calculated as the adjustment did not meet the interest recalculation threshold of \$50,000 per the Revenue Balancing Account provision tariff.

### ### ### ### ### ### ### ### ### ##														
	AS PREVIOUSLY STATED		Mar-11	Apr-11	May-11	Jun-11	11:M4	Ave-11	Sept-11	961-11	Nov-11	Pee-11	Jan-12	Feb-12
	5	Monthly Target Revenue	36,452,740	35,681,973	37,812,917	39 048 559	41,350,321	45,898,048	44,070,248	44,577,970	41,937,817	41,937,517	41, 125, 482	36,860,599
Hard Compare the control of the		Recorded Adjusted Revenue	37,206,214	35,823,429	37,102,931	36,409,589	38,728,938	38,485,482	38,385,130	38,799,920	36.574,222	39,961,425	39,527,589	37,356,068
14-13 Colored Materians Colored Materian		Reversal of Previous Year Accrual	1 20 (2)	(or		7,000,000	, use 1		e i concie	R		700 0141		
Figure Subject to interest Figure State Figur			(753,474)	(141,456)	709,986	2,636,970	2,621,383	7,412,564	5,685,118	5,778,060	5,363,595	1,978,392	1,597,963	(495,469)
Exempted Believe Believe Brews (73,737) (973,537	91	Beginning RBA Balance	•	(837,054)	(883,048)	(278,202)	2,365,980	5,006,748	12,445,972	18,207,533	24,035,403	18,705,434	20,780,294	22,486,053
Control Cont		End Bahnce Before Interest	(753,474)	(078,510)	(273,062)	2,360,768	4,987,363	12,418,310	18, 131,000	23,985,583	29 399 998	20,681,826	22 378 157	21,990,584
Comparison Com		Balance Subject to Interest	(378,737)	(907,782)	(8Z8,065)	1,042,283	3,876,672	8,712,028	15,288,531	21,000,558	28,717,201	19,693,630	21,579,228	22,238,319
Fig. 12 Foreign Relations 1755,358 (162,044) (271,372) 2,355,980 3,045,140 12,411,570 3,051,523 2,400,100 2,522,344 2,712,572 2,900,140		Unterest	(1,88 <u>4)</u>	(4,530)	(3,140)	5,211	18,383	43,500	76,443	105,483	133,588	88.468	107, 808	111,182
February Target v. Actual Difference: Recorded Adjusted Revenues 137,208,214.29 137,102,815 134,102,81	m·13 017	Ending RBA Balance	(766,358)	(983,048)	(278,202)	2,365,980	5,005,746	12,461,870	18,207,533	24,091,068	29,532,584	20,780,294	22,486,053	22,101,776
Revise Revise Adjustment forenties 17,00,001 1,00		Target vs Actual Ofference:	***	200 200	5	202 000	000 oct	20,405	45.45	700 000	£ 55	, 90 of	20 577 600	17 150 000
Ferring Revises 17.206.705 35.823.420 37.102.916 38.128.917 31.208.915 31.208.917		Control Adjustment 1	F) 7'007'.C	67	15.	(13)	100	(11)	(12)	(11)	(8)	(9)	(2)	9
		Revised Revenues	37,208,205	35 623 420	37,102,916	38,409,578	38,728,917	38,455,471	39,385,118	38,799,909	38,574,216	39,961,410	39,527,592	37,356,062
Hority Taget Revenue 35,452,740 35,681,973 31,812,917 30,405,559 41,350,321 45,688,046 44,070,248 44,577,570 41,937,817 41,9			(753,485)	(141,447)	710,001	2,636,983	2,621,404	7,412,575	5,685,130	5,778,081	5,363,601	1,976,388	1,597,870	(495,463)
Monthy Taget Revenue 35,452,740 35,681,973 31,812,917 35,042,559 41,353,721 46,581,640 44,070,748 44,577,570 41,937,817 41,9							Ì				[
Monthy Taget Revenue 38,452,740 35,681,973 31,812,917 30,045,559 41,350,721 45,886,046 44,070,248 44,577,970 41,977,817 41,9	AS REVISED		Mar-11	Apr-11	May-11	Jun-11	104-11	Aug-11	Sept-11	Oct11	Nov-11	Dec-11	Jan-12	Feb-12
Recorded Agricultural Recorded Agricultura	=	Monthly Terrant Resemble	36.452 740	35.681.973	37.812.017	30 046 559	41,350,321	45 898 046	44 070 248	44 577,970	41,937,817	41.937.817	41,125,462	36,860,589
Target or Adjustment to Rowning 173,445 (141,447 710,001 2,500,931 2,621,404 7,412,75 5,645,100 5,778,001 1,075,309 (1975,302 1975,304 1975,	: =	Recorded Adjusted Revenue	37.206.205	35 823 420	37,102,918	36 409 578	38,728,917	38 485 471	38,385,118	38,789,909	38 574 218	39,961,419	30 527 592	37,356,062
Revisad Adjustment to Revisad Adjustment t		Torget vs. Actual Revenue	(753,465)	(141,447)	710,001	2,636,983	2,621,404	7,412,575	5,685,130	5,778,081	5,380,601	1,976,398	1,597,870	(495,483)
Hard Companies 1,000, 1,00		Reversal of Previous Year Accrusi	•		•	•	•		•					.!
Gegrand Blazanoa Gegrand Bla		Net RBA Change	(753,465)	141.447	710,001	2 636 983	2621404	7,412,575	5,685,130	5,778,061	5,363,601	1,976,398	1 597 870	(485,480)
16 - 15 Comparison Before interest (133,445) (13,5425) (Beginning RBA Galance	. !	(837,045)	(983,030)	(276, 169)	2,366,028	5,005,814	12,448,052	18,207,625	24,035,308	18,705,544	20,780,41	22,488,178
(LG + L) - 2 or (LG + L) - 2 o		and Balance Before Interest	(753,485)	(975,492)	(Z/3,029)	2,360,814	4,887,430	12,418,369	19,131,182	23,965,595	20.00	20,681,942	72.376.23	CI 1,088,12
List 1,1785		Batance Subject to Interest	(376,733)	(907,768)	(625,029)	042,323	3,676,728	3,712,102	15,258,617	21,000,050	13,507	19,593,743	200,000	77.77
		(merest	1.004	30.	(3,140)	212,0	200.00	8	10,463	20,001	3	MG,408	, and , and	
(752,465) (141,447) 710,001 2,639,883 2,621,404 7,41,2575 5,685,130 6,778,061 5,303,001 1,978,382 (755,455) (141,447) 710,001 2,639,000 2,621,383 7,41,545 5,685,130 6,778,061 5,303,695 1,976,382 (778,061 5,303,695 1,976,382 (778,061 5,303,695 1,976,382 1,978,382 1,9		Ending RBA Balanco	(755,349)	(962)(236)	(274, 169)	2,366,026	5,005,814	12,451,950	18,207,625	24,091,169	28,522,000 100	20,780,411	22,486,178	22,101,907
(10 Revenue (753,474) (141,459) 706,988 2.678,877 2.621,383 7,41,254 5.885,118 5,778,050 5,303,505 1,3775,307 (10 Revenue (753,474) (141,459) 706,988 2.638,8775,307 (10 Revenue (753,474) (141,459) 706,988 2.638,8775,307 (10 Revenue (753,474) (141,459) 706,988 2.638,8775,988 2		Revised Adjustment to Revenue	(753,465)	(141,447)	710,001	2,636,983	2,621,404	7,412,575	5,685,130	5,778,061	5,363,601	1,976,388	1,597,870	(405,463)
			(753,474)	(141.456)	709,996	2636,970	2,621,383	7,412,584	5.685,118	5,778,050	5.363.585	1,978,392	1,597,883	(495,469)

Note [1]
In correction and Order No. 31998 on Schoolus A of the Decouping Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the triemal Revenue Service to charge its transmission and revenue business and revenue business and revenue business are collected, effective January 1, 2014. Accordingly, staring with May 2014, interest a cabbased on a ref-of-recome tax RBA business, and the fallowing recome tax factor is used in the cabbased.

1,626920121

Income Tax Factor (1 / 1-tax rate)

Note [2] Totals may not edd exactly due to roundarg.

Note (3)
The Company necetods an equatment to the RBA rectaind to macelebragoa. R rate billing adjustment processed in January 2017. The Company recalcidated the RBA based on the billing adjustment in the prior months incurred. No interest impact was calculated as the adjustment for not meet the interest recalculation threated of \$50,000 per the Revenue Balancing Account provision tourif.

HECO-WP-8-018 HAWAZAN ELECTRIC COMPANY. INC. JAN 2017 ADJUSTMENT - MISCELLANEDUS R RATE BILLING ADJUSTMENT

AS PREVIOUSLY STATED		Mar-12	Apr-12	M=2:-12	Апе-12	Juty-12	Avg-12	Sept-12	Qct-12	Nov-12	Dec-12	Jan-13	Feb-13
5	Monthly Target Revenue	41,125,482	40 152 722	43,255,064	43,990,356	45,538,102	46,640,073	45,011,148	45,529,707	42,833,187	42,830,375	42,000,731	37,645,000
2	Recorded Adjusted Revenue	38,621,842	38,384,038	41,640,204	37,944,203	40,009,646	41,328,298	39,445,423	41,324,162	38,638,624	40,479,114	38,528,431	35,028,258
u 1.0	Target vs. Actual Revenue	2,503,620	1,768,084	1,614,860	6,036,153	4,628,456	5,811,775	5,565,723	4,205,545	4,194,563	2,351,261	3,472,300	2,616,641
3	Reversal of Previous Year Accrual	•		•	(1,548,140)	(1,611,187)	(1 079 771)	(1,569,477)	(1.859.897)	(1,540,056)	(1591381)	(1,499,041)	(1,322,999)
5. I	Net RBA Change	2,503,620	1,768,684	1,614,960	4,490,013	3,017,289	3,932,004	3,996,248	2,545,048	2,654,507	759,880	1,972,359	1,293,642
5	Segirming RBA Balance	21,734,834	24,353,387	28,243,191	27,993,304	32,634,509	35,822,493	39,620,231	43,824,588	46,595,703	49,479,876	50,489,050	52,735,438
7, 18,15	End Balance Before Interest	24,238,454	28 122 071	27,858,051	32,483,317	35,651,778	30 754 497	43,616,477	46.370.216	49,250,210	50 238 756	52,460,408	54,020,280
LB (LB - L7) - 2 or (LB - L7) - 2 - [1]	Botance Subject to Interest	22,986,644	25 237,729	12,050,621	30,238,311	34,143,143	37,788,495	41,618,354	45,097,392	47,922,957	49,858,816	51,474,227	53,382,359
	Interest	114,933	128,183	135,253	151, 192	170,716	188,042	208,092	225,487	239,615	249,294	257,371	206,912
41.67.00	Ending RBA Balance	24,353,387	26,248,260	27,893,304	32,634,509	35,822,493	39 943 440	43,824,568	48,595,703	49,489,825	50,489,050	52,717,779	54,298,192
	Target vs Actual Difference:					4		27				20,000	2000
	Recorded Adjusted Revenues - Unacjusted	280,120,00 (A)	36,304,036 (5)	47,040,04	(Z)	oper inter	111)	115)	(15)			(12)	(10)
	Revised Revenues	38,621,837	38,384,033	41,040,199	37,844,196	40,909,639	41 328 287	39,445,408	41 324 147	38,638,613	40 479 504	38,528,419	35,028,248
		2,503,625	1,769,689	1,814,865	1	4,628,463	5,611,788	5,565,738	4,205,560	4,194,574	2,351,271	3,472,312	2,616,851
AS REVISED		Mar-12	Apr-12	May-12	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13
	Monthly Terrain Designed	41135480	22.03.09	P\$0 556 EF	43 080 156	45 538 100	48 940 073	45 011 148	45,520,707	42 833 187	42 830 375	42 000 731	37 645 099
5 S	Recorded Advisted Revenue	38.621.837	38, 384, 033	41,640,189	37,944,196	40,909,639	41 328 287	39,445,408	41 324 147	38,638,613	40 479 104	38,528,419	35,028,248
2:12	Torget vs. Actual Revenue	2,503,625	1,768,689	1,614,865	6,036,180	4,628,463	5,611,786	5,565,738	4,205,560	4,194,574	2,351,271	3,472,312	2,618,851
3	Reversal of Previous Year Accrual	•	•		(1,546,140)	(1,611,187)	(1,679,771)	(1,569,477)	(1,659,897)	(1,540,058)	(1,591,381)	(1,499,941)	(1,322,999)
ច.ស ខា	Net RBA Charge	2,500,625	1,769,689	1,614,865	4 490 020	3,017,276	3,932,015	3,996,251	2,545,663	2,654,518	759,890	1,972,371	1,293,852
	Beginning RBA Balance	21,734,985	24,353,524	26,243,333	27,093,452	32,634,684	35,822,656	39,620,405	43,824,759	48,595,910	49,479,095	50,488,280	52,735,681
સ.ક. સ.ક	End Batance Before trienest	24,228,590	26,122,213	27,658,198	32,483,472	35,651,940	38 754 871	43,816,668	46 370 422	49,250,428	50,238,885	52,480,650	200
	Batance Subject to Interest	22,995,778	25 237 869	27,050,788	30,238,462	34,143,302	37 788 864	41,618,535	45 097,591	47,923,169	49,859,040	51,474,483	53,382,607
18 x 674 - 12	Interest	114,934	126,189	135,254	151,192	170,717	188,943	208,093	225.488	239,618	249,295	257,372	288,913
£10 L7+L9	Ending RBA Balance	24,353,524	26,248,402	27,983,452	32,634,664	35,822,858	39,943,615	43,624,759	46,595,910	49,490,044	50,488,280	52,718,022	54,286,440
	Revised Adjustment to Revenue	2,503,625	1,788,689	1,614,865	6,036,160	4,628,463	5.611,786	5,585,738	4 205 560	4,184,574	2,351,271	3,472,312	2,818,851
	RBA Adjustment Recorded to Revenue	2,503,620	1,788,584	1,614,850	6,039,153	4,928,458	5,611,775	5,585,723	4,205,545	4, 194,583	2351,281	3,472,300	2,618,841
	Adjustment to Revenue	vo.	LC .	en.	1	^	=	51	5	=	5	?	\$

HECO-MP-8-018 Hawalan Electric Company, Inc. Jan 2017 adjustment - Miscellaneous R Rate Billing adjustment

AS PREVIOUSLY STATED		Mar-13	Apr-13	M-75-13	21-65	101-13	Aug-13	Sep-13	51:13	Nov-13	D00-12	Jan-14	Feb-14
5	Monthly Target Revenue	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622	47, 289, 315	47,834,122	45,001,122	45 001 122	44,129,429	30,553,044
2	Recorded Adjusted Revenue	39,226,528	38,772,031	40,347,419	40,290,987	42, B38, 763	43,680,012	41,909,165	42,572,492	40,870,690	41,178,602	40,155,441	37,87,094
53 13-15	Terrant ve. Actual Revenue	2774.203	1 880 528	3.416.305	5,854,231	4.940.87D	5,570,610	5,380,150	5,281,630	4,130,432	3,822,320	3,873,988	1,581,850
	Reversal of Previous Year Account	11.486 DAIB)	(1 493 978)	(1,558,384)	(4, 107, 427)	(4.428.857)	(4,485,163)	(4 277 405)	[4,415,078]	(4, 102, 803)	(4 255 258)	(3,025,518)	(3,781,214
61-3-	Net RRA Chance	1 288 155	388.550	1 827 921	745.804	514.022	1,105,447	1.102.745	946.552	27,629	(432,938)	48.472	(2,079,264)
	Beninson 884 Between	750 OOF 175	58.053.424	56 721 208	58 835 649	60 913 594	51 548 805	291 851 08	64.552.840	65.724.351	68,230,945	69,185,008	66,564,524
31.91	Cod Onbrose Defens Interest	CSC 663 353	V 0 0 0 0 0 2 0 2	CB 640 170	60 500 453	A1 427 A18	C3C C34 C4	64 229 000	66, 100, 30	65 751 880	65 799 007	68 733 478	64.485.260
		54 644 175	Ca 348 800	67 475	50 200 95	8170.605	A2 000 528	67 677 537	64 976 118	66 738 165	69 014 478	58 209 242	65 524 892
10 - 2 - (1) - 2 - (1) - 2 - (1)	Interest	37.4.72	281 223	288.176	17,000	205.853	310.498	318.55	374 881	328.691	330 072	331 046	327 524
	Ending RBA Babrice	55,862,973	58,721,208	58,837,305	60,680,999	61,733,470	62,982,750	64 547 297	66,724,273	66,080,671	68, 128, 079	66,584,524	64,812,684
	Target vs Actual Ofference:								!		:		
	Recorded Adjusted Revenues - Unadjusted	39,228,528	32,772,031	40,347,419	40,290,987	42,838,763	43,680,012	300 165	42,572,482	40,870,690	41,178,802	40,155,441	3, 6, 1,0
	Revised Revenues	39.226.519	38,772,020	40,347,407	40,290,957	42,838,734	43,670,977	41,809,128	42,572,467	40,870,672	41 178 788	40,155,430	37,871,083
	Taroet	42 000 731	40 852 559	43,763,724	48 145.218	47,779,842	49,250,622	47 289 315	47,834,122	45,001,122	45 001 122	44, 129, 429	39,553,044
		2,774,212	1,880,539	3,416,317	5,854,281	4,940,908	5,570,645	5,380,187	5,251,655	4,130,450	3,822,334	3,973,999	1,681,961
AS REVISED		Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
			40.000	4	97. 97.	47 730 045		3+6 080 14	47 676	46.001.122	45 001 122	44 126430	70 553 644
5	Montrey raight Keverade	2000	10,032,339	40.747.474	40,700,000	20 130 732	770 077	821 000 17	40 577 487	40.870.672	41 178 788	10.155.73	17 B7 1 087
:	Total of Adjusted Revenue	815,022,45 C15,025,02	39,772,020	34.58.317	5 854 281	4 040 000	5,570,645	5 380 587	5.261.655	4 130 450	3 523 534	3 973 999	1681.89
	į	110000000000000000000000000000000000000	2000	11 689 3841	(TCA 201.4)	4 426 857	(4.485.183)	14 277 4051	16.415.0781	14 tm2 Ams	1 X4 X8	0.925.5160	0.7812161
	Newthell of Previous Total Account	100000	100 500	1,000,000	77.0 27.	(4,450,031)		1 100 787	648.577	27.647	700 007	48.483	12 676 25
		150 out 15	1000000	56 721 485	010 25 63	\$10 E10 C9	27.77	63 126 553	64 553 269	AS 774 RDS	68 231 620	68 185 498	06 565 030
3 :		CE AND EAC	0000000	20 640 410	60 500 773	81 427 067	A2 643 640	2 20 TAS	65 700 845	AS 752 453	RE 705 496	68 233 SB1	777 285 277
18 (18:12):220.8:13:2:13	Dalmara School to Informat	C 044 67	54 745 950	57 805 452	50 700 350	61 170 941	62 000 600	67.677	64.978.558	65.738.629	66 014 858	66,209,739	65,525,403
	(Market)	274 722	281.235	288.177	788.547	306 255	310.499	318,390	324,883	328,693	330,075	331,049	327,627
				200 000			-				200 479 574	40 505 000	240.0
53 - 1. 0.1	Ending KBA Basince	757,000,00	17/90	oec'/m3'ec	175'189'09	61,732,623	94,900,139	C7/140'8	97 (747) 70	Oc. 190'00	8	action and	e de la companya de l
					;								
	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue	2,774,212	1,880,528	3,416,317	5,854,283	4,940,879	5,570,645	5,380,187	5,261,636	4,130,430	3,822,334	3,973,999	1,681,981
	Adjustment to Revenue	o.	=	2	Я	8	55	37	22	19	47	=	

HECOLMPAGOIS HAWAIDAN ELECTRIC COMPANY, INC. JAN 2017 ADJUSTMENT - MISCELLAMEGUS R RATE BILLING ADJUSTMENT

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AS PREVIOUSLY STATES		Mar-14	Apr-14	May-14	Jun-14	34:14	Avg-14	3ep-14	901.14	Nov-14	Dec-14	Jan-16	Feb-15
22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Morthly Target Revenue Recorded Attractor Revenue Target vs Adriated Revenue Reversa of Previous Vera Accrual Reversa of Previous Vera Accrual Bentration Of A Bankor	44,129,429 40,445,741 3,6910,649 (3,910,640) (228,952)	42,712,929 39,888,701 2,824,228 (3,873,501) (1,049,273) 64,700,878	45,981,776 41,328,526 4,655,250 (4,160,513) 404,737	48,725,408 43,277,375 5,448,033 (5,518,582) (70,559)	50,451,219 45900,584 4,550,635 (5,956,735) (1,406,100) 64,199,383	52,004,448 46,563,655 5,440,794 (6,117,673) (677,078)	49,933,476 45,458,699 4,478,777 (6,024,188) (1,547,411) 62,241,423	50,508,748 40,193,856 4,314,890 (8,133,236) (1,818,348) 60,848,258	47,517,340 43,033,461 4,483,879 (5,514,770) (1,030,891) 59,205,801	47,517,340 42,808,961 4,708,379 (5,430,235) (721,856) 56,455,031	46,596,907 41,131,344 5,485,563 (5,141,776) 323,787 57,791,569	41,764,635 38,968,462 2,796,173 (4,673,416) (2,077,243) 56,179,694
L7 (B+L5) -2 \(\lambda\) (B+L7) -2 \(\lambda\) (B+L7) -2 \(\lambda\) (B+L7) -2 \(\lambda\) (B+L7) -2 \(\lambda\) (B+L7) -2 \(\lambda\)	End Balance Before briterst Balance Subject to trierest Heevest Endry RBA Balance	84-803-610 64.717,086 84.379 84.897,989	83,651,603 64,176,239 93,590 83,745,193	04,155,811 39,041,545 58,836 84,212,547	54, 141, 988 39,205, 893 57, 175 64, 199, 183	62,793,083 38,789,775 56,568 62,849,601	62, 183, 783 38, 194, 875 55, 701 62, 239, 464	60,720,016 37,586,514 54,785 60,774,801	59,029,912 36,916,787 53,389 59,083,311	58,174,910 35,853,938 52,287 56,227,197	57,733,175 35,469,687 51,758 67,784,931	58, 115, 358 35, 400, 770 51, 630 58, 166, 688	56, 102, 651 34, 907, 603 50, 907 56, 153, 558
	Taget va Actual Difference: Recorded Adjusted Revenues - Unadjusted Revised Revenues Target	40,445,741 (11) 40,445,730 44,129,420 3,883,699	39,889,701 (10) 39,868,691 42,712,929 2,824,238	41,326,529 (10) 41,328,516 45,981,778 4,655,280	43,277,375 (14) 43,277,381 48,725,408 5,448,047	45,900,584 (32) 45,900,552 50,451,219 4,550,867	49,583,655 (41) 48,563,614 52,004,449 5,440,535	45,456,899 (40) 45,456,659 49,933,478 4,478,817	46, 193,856 (38) 46, 193,818 50,508,746 4,314,928	43,033,481 (14) 43,033,447 47,517,340 4,483,893	42,808,981 (10) 42,808,951 47,517,340 4,708,389	41,131,344 (10) 41,131,334 48,598,507 5,465,573	38,968,462 39,968,454 41,764,635 2,768,181
AS REVISED		Nar-14	Apr-14	May-14	Jun-14	JUESA	Aug.14	Sop-14	0ct.14	Nov-14	Dec 14	Jan-16	Feb-16
0.10 01 01 01 01 01 01 01 01 01 01 01 01 0	Morthy Tarjer Revenue Recorded Addiction Revenue Targer va Actual Revenue Revenuel of Previous Year Accusal Net RBA Chungo Bayrrong RBA Blance Brong RBA Blance Brong RBA Blance Ford Blance Brides Interest Verentes Ford RBA Blance	44,129,429 40,445,730 3,883,690 (3,810,040) (226,841) 64,831,045 64,504 64,504 64,504 64,504 64,128 64,504 64,128 64,504	42.712.828 39.888.031 2.824,238 (3.873,504) (1,042,283) (4,7701,408 63,552,145 64,778,738 63,554 63,554	45,981,776 41,326,518 4,655,280 (4,180,513) 494,747 63,681,417 84,159,184 30,641,880 56,936 64,213,100	48,725,408 43,277,361 5,448,047 (5,518,582) (5,518,582) 64,213,100 64,142,555 33,706,235 57,178 64,199,731	50,451,219 45,000,552 4,550,867 (15,956,735) (1,400,056) 84,190,731 38,790,132 56,559 62,850,232	52 004 449 45,563 614 5,440,855 (67.17,639) 62,661,443 62,194,455 54,701 55,701	49,833,476 4,476,847 (4,024,183) (1,547,371) (2,288,059 (90,720,598 37,508,919 54,785 (90,775,483	50,508,746 48,193,818 4,314,928 (4,135,236) (1,1518,308) 60,648,940 59,617,215 59,084,032	47,517,340 43,033,447 4,43,633,447 4,5514,770] (1,030,677) 59,204,522 58,175,645 35,684,383 58,228 58,228 58,228 58,228	47,517,340 42,808,851 4,708,329 (5,430,235) (721,846) 58,733,323 57,733,323 51,756 51,756 51,756	46 596,907 41,131,334 5,485,573 5,481,776) 32,792,315 58,118,112 35,404,229 51,631 58,163,125	41,784,635 38,988,454 2,798,181 (4,673,416) (2,077,235) 56,100,651 56,100,651 50,908 50,908 50,154,324
	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue	3,683,699 3,683,688	2,624,238 2,624,228 10	4,655,280 4,655,250 10	5,448,047 5,448,033	4,550,667 4,550,635 32	5,440,835 5,440,794 41	4,476,817	4,314,828 4,314,690 38	4,483,893 4,483,879 14	4,708,389 4,708,379 10	5,485,573 5,485,563 10	2,796,181 2,796,173 8

HEGO-MP-8-018
HAWAIDA ELECTRIC COMPANY, INC.
JAN 2017 ADJUSTMENT - MISCELLAMEDUS R RATE BILLING ADJUSTMENT

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AS PREVIOUSLY STATED	IEO	Mar-16	Apr-16	May-15	Jun-15	JAI-15	Avg-15	3ep-16	Oct-15	Nov-15	Doc-15	gau-16
•		700 000 00	400, 101 37	700 653 64	AB 047 584	K1 778 8711	52 782 780	40 707 D2	51 284 900	48 247 991	48 247 991	47,309,677
5 :	Montaly ingular repromises	0000000		20 20 00		17.00	070	47 377 603	45 160 541	48 00B 240	SP 62 57	47.73
	A BOURDON AND ASSESSMENT	12,1 14,100					0000		436.42	2000	2	4.076 347
13 11-12	larget vs. Actual Revenue	4,550,119	Z,8/3,/3J	CA 1810	0,00,000	3,043,142		20,000		2,4,0,0		
3	Reversat of Previous Year Accrual	(5, 182, 949)	(5,327,198)	(5.40: 784)	(3.565.59)	(5,301,934)	(5.577,653)	(3,375,270)	(5,110,063)	(5,072,050)	(4.07/0.5%)	3
5 14.13	Net RBA Change	(1,312,830)	(2351,465)	(382,589)	2,387,484	(1,356,792)	(2,247,123)	(2,050,639)	31.296	(2,852,908)	(1,752,203)	(\$59,014)
	Becinning RBA Batance	58.170,076	64.910,779	52.627.239	52,304,205	54,740,597	53,448,936	51,234,324	49,251,829	49,510,143	46,600,320	45,088,941
17 18+15	For Ratings Before Interest	50.858.146	52 559 314	52 244 650	54 691 689	53,383,805	51,199,813	49,183,685	49 568 125	46,757,235	45,048,027	44,529,027
		33 913 645	32 828 740	32 033 118	32 581 896	33,028,599	31,064,349	30,672,681	30, 183, 944	29,435,416	28,055,078	27,374,083
		40.458	47.872	48 715	47 681	48.164	46.615	44,731	44 018	42.827	40,914	39,921
	Endro RBA Batance	54,907,504	52,507,186	52, 291, 365	54 739 350	53,431,969	51,246,428	49,228,416	49,610,143	46,800,182	45,088,041	44,569,848
	Taget vs Actual Difference.		,				9	200 222 600	12 000	40 970 340	20.00	אנג נובט נוץ
	Recorded Adjusted Revenues - Unadjusted	42,710,786	42,123,47	250,550,54	***	16,102,14	107	200		(47)		
	Revised Revenues	42,718,780	42,125,463	43,533,624	41 094 933	47,281,470	49,462,200	47,377,556	45,660,513	48,028,232	45,122,634	43,233,323
	Tenget	45,598,907	45,101,204	48 552 627	46 047 584	51,226,53	22,782,780	20 / 102,234	20.00	40,747	100.747.04	
		3,880,127	2,975,741	5,019,203	6,052,651	3,945,183	3,330,571	3,324,678	5,424,387	2,218,759	3, 125,357	4,075,354
AS REVISED		Mar-16	Apr-15	May-15	Jun-15	Jul-16	Aug-16	Bep-15	Oct-16	Nov-15	Dec-16	Jan-16
•		40 505 003	46 th 304	709 553 697	48 047 584	61 778 621	087 097 02	50 702 234	51 284 900	48 247 991	48.247.991	47,308,677
5:	Montrey Langin Kertenda	10,000,000	7, 10, 10	20,503,03	100	47 7B1 470	40 407 200	47 377 56A	45 PM 513	46 028 222	45 122 634	43 233 323
	Keconded Adjusted Kevenue	77,10,100	7 (7)	30.05		200.00	2000			2000	200	4 075 354
تا - تا تا - تا	Target vs. Actual Revenue	3,850,127	2,975,741	0.010	6,05,651	3,000	1,5,000,0	3,324,078	100 074 0	2,218,739		200
3	Reversal of Previous Year Accruzi	(5,182,949)	(5,327,198)	(5,401,784)	(3,665,136)	(X8.00.c)	(reg'//e'e)	(0/3/2/5/6)	(con net c	(000,770,0)	20.00	
LI 14 · L3	Net RBA Change	(1,312,822)	(2,361,457)	(382,581)	2 387 495	(1,156,771)	(2,247,082)	(2,050,592)	314,324	(2,652,891)	(1 752 282)	(559,003)
2	Beaming RBA Batance	58,171,742	54,911,553	52,629,022	52,304,997	54,741,401	53,447,782	51,235,191	49,252,744	49,611,087	46,601,281	45,069,914
51-91-21	End Batance Before Interest	54,859,820	52,560,096	52,245,441	54 692 492	53,384,630	51,200,680	49, 184, 599	49,587,068	46,758,196	45,048,999	44 530 911
	Batance Suttiect (33,914,316	32,627,215	32,033,599	32,682,383	33,027,098	31,964,887	30,673,225	30,184,511	29,435,997	28,055,698	27,374,68)
		49.458	47,873	48,718	47,662	48 165	46,615	44,732	4,019	42,927	40,915	39,921
	,	0.000	C 200 C	636 0000 02	C4 740 454	300 000	54 747 30C	120 000 07	40.811.097	28 801 123	45 089 914	44 570 832
1 1	ENGRIÇ KIRA BRIBINCO	B (c'ppa)	806,100,2c	26,282,131	ţ Ŝ	20,700	287)		3			
	Revised Adjustment to Revenue	3,880,127	2,975,741	5,019,203	6.062,851	3,945,183	3,330,571	3,324,678	5,424,387	2,219,759	3,125,357	4,075,354
	RBA Adjustment Recorded to Revenue	3,680,119	2,975,733	5,019,195	6,062,640	3,945,142	3,330,530	3,324,631	2.424,529	2.7.0,14.2	3.10.30	200,000
	Adjustment to Revenue	•	6	10	=	<u>۳</u>	7	£ 4	₽.		Ξ	Ξ

HECO-WP-8-016 HAWAIIAN ELECTRIC COMPANY, INC. JAN 2017 ADJUSTMENT - MISCELLANEOUS R RATE BILLINO ADJUSTMENT

ــــا	ប្រុស្ថិញិសទ្ធស្នេក	Teal Bhrs	្តី ខ្លួន នៃ ខេត្ត នេះ ខេត្ត នេះ ខេត្ត នេះ ខេត្ត នេះ ខេត្ត នេះ ខេត្ត នេះ ខេត្ត នេះ ខេត្ត នេះ ខេត្ត នេះ ខេត្ត ន	3 Ictal BBA 3 Advention 5.162
Dec-16	48,957,805 44,527,809 4,430,153 (3,844,438) 985,715 42,862,520 43,188,725 28,204,786 38,215 43,228,450	44,527,809 44,527,809 48,957,809 4,430,153	48,957,982 44,327,809 44,327,809 44,30,153 585,715 42,603,748 43,605,365 38,216 38,216 43,227,677	4,430,153
Nov-18	49,957,962 43,941,301 5,016,681 1,279,820 41,290,214 42,5170,043 25,615,115 37,355 42,907,388	43,941,301 (13) 43,941,288 49,957,962 5,016,674	48,057,862 43,641,289 5,016,674 (3,739,842 41,251,289 75,615,890 37,365 42,608,624	5,018,674 5,018,661 13
Oct-18	52,040,081 47,722,581 4,917,480 (4,075,714) 841,789 40,381,434 41,381,200 24,901,689 36,315 41,219,515	47,122,581 47,122,547 62,040,061 4,817,514	52,040,081 4,9172,547 4,917,514 (4,075,714) 841,807 441,807 441,807 39,318 41,220,727	4,917,514
See-16	51,447,350 48,441,855 5,005,495 (4,085,884) 919,831 30,235,508 24,335,878 35,490 40,331,089	48,441,855 (33) 48,441,822 51,447,350 5,006,528	51,447,350 46,441,822 5,005,528 (4,005,634) 919,084 30,377,108 30,477,108 30,477,108 30,477 40,332,383	5,005,528
Avg-18	53.581,111 40,684.341 3,886,770 (47,533,881) 34,85,461 36,485,484 35,372 39,550,833	49,694,341 (34) 49,594,307 53,581,111 3,886,804	Aug-16 53,581,111 49,584,307 3,886,504 (4,273,881) (437,077) 33,6873,880 33,6860 33,48600 33,48600 33,48600 33,4873 33,521,878	3,886,804
34-16	51,980,700 47,602,181 4,348,623 (4,131,705) 218,924 39,600,200 39,687,133 24,300,700 35,439 35,439	47,632,161 47,632,127 51,980,790 4,348,683	51,980,780 47,652,177 47,652,177 4,348,683 14,131,705 20,958,240 24,301,458 35,440 36,823,680	4,348,663
Jun-16	50,202,666 44,354,039 5,848,617 (3,792,822) 2,055,885 37,537,631 38,533,631 34,358 39,628,174	44,354,039 (31) 44,354,008 50,202,656 5,848,848	Jun-18 50, 202, 856 44, 354, 008 64, 988, 948 (3, 72, 852) 2, 006, 016 31, 539, 872 33, 530, 531 34, 359 39, 629, 247	5,848,648 5,848,617 31
May-18	49.209,788 46,044,763 3,252,025 (4,848,387) (1,566,382) 39,724 37,480,878 34,103 37,514,982	48,044,783 (18) 48,044,747 49,296,788 3,752,041	49,289,789 46,244,747 3,252,041 (4,546,349) (1,546,349) 39,078,278 37,618,194 34,104 37,518,023	3,252,041 3,252,025 16
Apr-18	45,783,747 42,792,611 3,001,136 (4,698,612) (1,697,478) 0,035,728 35,485 36,332,432 35,485 36,032,213	42,792,611 42,792,600 45,793,747 3,001,147	45,793,747 42,782,890 42,782,890 42,782,890 (4,690,147 (4,690,147 (4,690,127 (4,600,127 (4,000,127	3,001,147
Mat-18	47,308,677 43,645,283 3,363,414 (4,548,813) (1,185,399) (1,185,399) (4,669,775 26,083,985 36,585 40,48,376	43,945,280 (11) 43,945,252 47,308,677 3,383,425	47,308,677 43,945,252 3,303,425 (4,548,343 11,185,388) 11,185,388) 14,970,775 41,970,775 25,094,600 38,596	3,363,425 3,363,414
Feb-18	42,407,239 41,404,808 1,002,431 (4,3370,004) 44,879,617 41,539,011 41,539,011	41,404,808 (15) 41,404,293 42,407,239 1,002,448	42.407.239 42.407.239 4.0404.793 (9.27.446 (9.31.5.15) 48.809.001 41.501.532 20.458 30.478 41.540,011	1,002,446 1,002,431
æ	Morthly Target Revenue Recorded Adjusted Revenue Inger vs. Adjusted Revenue Revenue de Prevenue Advenuel Revenue de Prevenue Yest Accrual Net Riba Churupe Baginvirg Riba Balanco En Balanco Beldroe Interest Balancos Subject to Interest Vateress Endry Riba Balancoe	Tarpet va Actual Deference: Recorded Adjusted Revenues - Unodjusted Revised Revenues Tarpet	Monthy Target Revenue Recorded Adjusted Revenue Teperus Actual Revenue Teperus Actual Revenue Revenual of Provious Year Accusal Net RBA Charge Begarrong TARR Bathance End Bathance Bottoe Universit Belahance Subject to Interest Ending RBA Bathance	Revised Adjustment to Revenue RBA Adjustment Recorded to Revenue Adjustment to Revenue
AS PREVIOUSLY STATED	10 7-10 10 17-12 10 10-13 10 10-17-2-11 10 10-17-2-11 10 17-28		43.8EV/SED 10.10 10.1	

DRAFT – PENDING RESPONSE FROM THE CONSUMER ADVOCATE Treatment of Billing Adjustments Going Forward

The Hawaiian Electric Companies have agreed to implement the recommendation in the Consumer Advocate's statement of position on Transmittal Nos. 15-03, 15-04 and 15-05 to discontinue the presentation of customer billing adjustments in Schedule B of the decoupling RAM template in the Companies' annual decoupling tariff transmittals and the subsequent analyses by the Consumer Advocate of these adjustments.

In its statement of position, filed on May 15, 2015, the Consumer Advocate stated the following:

Through collaborative discussions with the Hawaiian Electric Companies and after review of information request responses, the Consumer Advocate has concluded and is recommending to the Commission that the extensive manual analyses of out-of-period customer billing adjustments, which [have] historically been undertaken by the Hawaiian Electric Companies, should be discontinued effective in 2015. Examples of customer billing adjustments and the analytic work performed can be observed in the "Adjustment" column of Schedule B, the footnotes on Schedule B and the multiple "WP-B-xx" documents supportive of these entries. Customer billing adjustments may involve movement of individual customers to a more appropriate rate schedule, with retroactive bill credits for applicable prior periods when an inappropriate schedule was employed or the identification and correction of meter reading or other billing errors. At the inception of decoupling, it was necessary to analyze the prior periods affected by such changes to allow only the prior billings months after decoupling inception to impact RBA balances. Now that several years have passed with decoupling in place, there is minimal risk of significant billing adjustments reaching back far enough to precede the inception of decoupling. Moreover, since the Hawaiian Electric Companies do not pay interest to individual customers who are found to have been charged under an inappropriate rate schedule in prior months, it is not necessary to analyze and add RBA interest to such billing corrections. Customer billing adjustments will flow naturally through the billed revenue accounts feeding into the calculation of recorded, adjusted revenues on Schedule B2 and the proposed elimination of the manual analysis of each adjustment to determine prior period months affected will significantly simplify RBA accounting efforts for the Hawaiian Electric Companies and corresponding review efforts for the Consumer Advocate and the Commission. The Hawaiian Electric Companies should continue to report each customer billing adjustment within its standard data responses prepared and submitted with each monthly RBA packet, so that individual adjustments can be selected for review by the Consumer Advocate, as necessary.

In response to the Consumer Advocate's recommendation, Order No. 32866, issued on May 28, 2015, stated the following:

The Consumer Advocate and the HECO Companies agree that accounting for billing adjustments in the RBA could be simplified by changes made on a prospective basis. The commission notes that this matter does not have to be resolved prior to any timely approval of the 2015 transmittals and proposed RBA Rate Adjustments. The HECO Companies may file proposed implementing

RBA tariff amendments based on language reviewed by and agreed to by the Consumer Advocate.

Thus, the Company proposes to delete the provision on billing adjustments in the RBA Provision tariff as shown on Attachment 1. Billing adjustments will not be reflected in the RBA filing prospectively effective upon agreement with the Consumer Advocate.¹

Regarding the Consumer Advocate's recommendation on reporting, the Companies propose to report customer billing adjustments of \$50,000 or more in the monthly RBA packets, as \$50,000 is the current threshold to trigger interest recalculation.

¹ The Company informally sent the proposal described herein to the Consumer Advocate prior to the filing of this tariff transmittal.

Hawaiian Electric Company, Inc.

Bargaining Unit Wage Increase per Collective Bargaining Agreements - Effective January 1, 2011 and July 1, 2013

1	Wage Incre	ases:	1/1/2011	1.75%	(Note 1)	
	(non-comp	oounded)	1/1/2012	2.50%	(Note 1)	
		•	1/1/2013	3.00%	(Note 1)	
			1/1/2014	3.00%	(Note 2)	
			1/1/2015	3.00%	(Note 2)	
			1/1/2016	3.25%	(Note 2)	
			1/1/2017	3.00%	(Note 2)	
			Increase	Wage Rate	Labor (Cost
	Increase	e effective	Amount	With Increase	Escalatio	n Rate
_			(a)	(b) or	(c)	}
				prev (b) + (a)	(b) / prev	/ (b) -1
1.00	1.75%	1/1/2011	0.0175	1.0175		
	2.50%	1/1/2012	0.0250	1.0425	0.0246	2.46%
	3.00%	1/1/2013	0.0300	1.0725	0.0288	2.88%
1.00	3.00%	1/1/2014	0.0300	1.0300		
	3.00%	1/1/2015	0.0300	1.0600	0.0291	2.91%
	3.25%	1/1/2016	0.0325	1.0925	0.0307	3.07%
	3.00%	1/1/2017	0.0300	1,1225	0.0275	2.75%
		<u></u>				

⁽¹⁾ Agreement ratified by the IBEW, Local 1260 on March 11, 2011, reflects a 1.75% increase effective 1/1/2011, 2.50% increase effective 1/1/2012, and 3.00% increase effective 1/1/2013. See HECO's Form 8-K dated March 11, 2011 filed with Securities and Exchange Commission at www.hei.com, under SEC filings.

⁽²⁾ Agreement ratified by the IBEW, Local 1260 on November 1, 2012, reflects a 3.00% increase effective 1/1/2014, 1/1/2015 and 1/1/2017 and a 3.25% increase effective 1/1/2016, based on 1/1/2013 rates. See HECO's Form 10-Q dated November 8, 2012 filed with Securities and Exchange Commission at www.hei.com, under SEC filings. See also HECO-WP-C-003.

Blue Chip Economic Indicators®

Top Analysts' Forecasts of the U.S. Economic Outlook for the Year Ahead Vol. 42, No. 2, February 10, 2017

2017 Real GDP Forecast Unchanged At 2.3% for A Third Month

				rom 2016 (F							For 2017		· Total Units	s-2017	-2017
FEBRUARY 2017	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Forecast For 2017	Real GDP	GDP	Nominal (Dis. Pers.	Personal	Non-Res.	Corp.	Treas.	Treas.	Unempl.	Housing	Auto&Light	Net
SOURCE:	(Chained) (2009\$)	Price Index	GDP (Cur.\$)	Price Index	Prod. (Total)	(2009\$)	Cons. Exp. (2009\$)	Fix, Inv. (2009\$)	Profits (Cur.\$)	Bills 3-mo.	Notes 10-Year	Rate (Civ.)	Starts (Mil.)	Truck Sales (Mil.)	(2009\$)
Moody's Analytics	2.6 H	1.6 L	4.6	2.8	1.3	2.0	3.2 H	3.6	3.6	0.6 L	2.9	4.7	1.41	17,5	-672.6 L
Naroff Economic Advisors*	2.6 H	2.5 H	5.0 H	2.7	2.0	2.1	2.7	4.5 H	6.7	1.0	2.8	4.5	1.33	17.4	-651.0
RBC Capital Markets		1.8	4.4	2,1 L	na 1	na	2.7	2.7	na	na	2.6	4.4 L	1.23	17.5	-603,0
SOM Economics, Inc.	2.6 H 2.6 H	2.1 2.2	4.7 4.8	2,2 2.8	1.6 1.4	2.2 2.2	2.6 2.7	2.8 2.8	6.0 8.7	0.7 0.7	2.7 2.7	4.5 4.9	1,26 1,22	17.6 18.0 Н	-586.0 -526.1 H
Turning Points (Micrometrics) ACT Research	2.5	2.1	4.7	2.5	1.4	2.2	2.6	4,5 H	na	1.0	2.6	4.4 L	1.29	17.3	-652.4
AlG	2.5	1.9	4.5	2.6	1.5	2.3	2.9	3.4	7.0	0.7	2.5	4.6	1.23	17.5	-613.8
Amherst Pierpont Securities	2.5	2.1	4.6	2.9 H	1.2	2.3	2.7	3,1	6.0	1.1	2.9	4.6	1.28	17.4	-616.0
Econoclast	2.5	2.1	4.6	2.5	1.8	2,4	2.8	3,0	5.1 7.0	0,8 1,0	2.8 2.7	4.6 4.6	1.29	17.3 17.7	-625.0 -590.0
MUFG Union Bank Wells Capital Management	2.5 2.5	1.9 1.9	4.4 4.4	2.9 H 2.2	2.1 1.9	na 2.4	2.7 3.0	4.0 3.2	3.6	0.8	2.7	4.6	1.18	17.7	-634.0
Action Economics	2.4	2.0	4.4	2.6	1.5	2.2	2.6	3.3	7.6	0.8	2.6	4.7	1.27	17.8	-621.3
BMO Capital Markets*	2.4	1.9	4.4	2.7	1.7	2.3	2.9	2.7	6.3	0.7	2.6	4.4 L	1.32	17.2	-635.3
Comerica*	2.4	1.9	4.4	2.6	0.9	1.9 L	2.2 L	3.9	na	0.7	2.7	4.7	1.23	17.2	-605.0
High Frequency Economics Inforum - Univ. of Maryland	2.4 2.4	2.3 2.0	4.8 4.4	2.6 2.4	1.6 1.5	2.3 2.4	2.7 2.6	3.6 2.7	3.0 4.8	1.0 0.9	2.7 2.7	4.5 4.7	1.23 1.31	17.7 17.4	-616,3 -596.0
National Assn. of Home Builders	2.4	2.1	4.6	2.3	0.9	2.0	2.7	3.1	na	0.8	2.7	4.7	1.24	17.5	-615.0
PNC Financial Services Group	2.4	2.0	4.5	2.3	1.8	2.7	2.7	2.3	na	0.8	2.7	4.5	1,20	17.5	-580.0
Standard & Poors Corp.*	2.4	2.2	4.7	2.4	2.6	2.1	2.5	3.2	3.6	0.7	2.5	4.6	1.29	17.5	-548.1
UBS	2.4	1.9 2.3	4.3 5.0 H	2.3 2.5	1.2 0.8	3.1 3.9 H	2.7 3.0	3.2 4.2	па 5,0	1.0 1.6 H	na 1 2.7	4.6 4.7	1.30	ла 17.4	-634.0 -633.7
UCLA Business Forecasting Proj.* BNP Paribas North America	2,4 2.3	1.9	3.0 П 4.2	2.3	4.5 H	3.9 m na	2.5	3.0	na	0,7	2.8	4.6	na na	na	-643.0
Conference Board*	2.3	2.0	4.4	2.6	-1.0 L	2.1	2.6	2.8	2.6	0.9	2.6	4.6	1.28	17,2	-630.4
Credit Suisse	2.3	1.9	4.2	2.2	1.2	na	2.3	2.7	na	na	2.8	4.6	na	na	-603.7
Daiwa Capital Markets America	2.3	2.0	4.3	2.4	1.7	2.1	2.6	3.3	2.9	1.0	2.8	4.7 4.5	1.20	17.3	-634.0 -636.0
DS Economics Economist Intelligence Unit	2.3 2.3	1.9 2.0	4.2 4.3	2.4 2.4	1.2 1.7	2,2 2.2	2,7 2.7	3.5 1.9	6.2 na	0.7	2.5 2,8	4.5 4.5	1.30 1.27	17.3 17.3	-580.0
FedEx Corporation	2.3	2.0	4,6	2.5	1,5	2.3	2.7	3.0	5.4	0.8	2.6	4.7	1.27	17.6	-624.9
General Motors	2.3	2.0	4.3	2.6	1.2	2.4	2.6	3.0	5.6	0.8	2.5	4.5	1.30	na	-622.4
Georgia State University*	2.3	2.1	4.4	2.4	2.0	2.4	2.7	2.7	6.5	0.7	3.1 H			16.8	-654.9
IHS Markit Economics Macroeconomic Advisers, LLC**	2.3 2.3	2.1 1.9	4.5 4.2	2.4 2.4	1,4 1,2	2.6 2.2	2.8 2.7	4.3 3.6	8.9 6.3	0.9 0.7	2.6 2.5	4.6 4.5	1.24 1.33	17,4 17,4	-629.6 -639.5
National Assn. of Realtors	2.3	2.0	4.4	2.5	1.4	2.2	2.4	3.6	6.3	0.9	2.7	4.6	1,26	17.4	-610.0
Point72 Asset Management*	2.3	2.0	4.4	2.6	2.2	2.1	2.4	3.9	4.7	0.9	2.6	4.4 L	1.25	17.6	-620.1
Societe Generale	2.3	2.0	4.3	2.1 L	na	2.3	2.7	3.5	9.1 H		2.7	4.6	1.22	17.7	-644.0
Oxford Economics	2.3 2.2	2.0 1.9	4.3 4.1	2.5 2.3	1.2 0.9	2.2 2.1	2.7 2.9	2.9 3.2	1.2 L	0.8	2.6 2.6	4,6 4.6	1,28	17,9 na	-611.3 -654.0
Ford Motor Company* Goldman Sachs & Co.**	2.2	2.2	4.5	2.8	1.2	2,1	2.5	3.2	na na	na 1.3	3.0	4.5	1.28	na na	-632.9
MacroFin Analytics	2.2	2.0	4.2	2.4	1.5	2.2	2.6	2.2	5.9	1.0	2.7	4.6	1.20	17.3	-592.0
Moody's Capital Markets*	2.2	1.9	4.1	2.2	2.1	1.9 L	2.5	1.5	4.0	0.7	2.5	4.6	1.22	17.4	-607.0
Nat West Markets	2.2	2.0	4.3	2.4	1.2	1.9 L	2.6	2.6	6.0 2.6	0.8	2,6 2,6	4.6 4.6	1.33	17.0 17.1	-625.0 -596.1
Regions Financial Corporation Swiss Re	2.2 2.2	2.1 1.8	4.4 4.0	2.6 2.5	1.4 1.9	2,2 2,7	2.5 2.7	2.9 2.9	6.7	0.8	2.5	4.6	1.27	16.2 L	1
U.S. Chamber of Commerce	2.2	1.9	4.1	2.1 L	1.2	2.2	2.6	2.2	4.0	0.9	2.6	4.8	1.26	na	-642.2
Wells Fargo	2.2	2.1	4.2	2.5	1.5	2.2	2.7	3.4	2.5	0.8	2.5	4.7	1.22	17.1	-653.3
Bank of America Merrill Lynch	2.1 L	1.9	4.1	2.5	1.3	na	2.6	3.5	na	0.7	2.6	4.6 4.6	1.23 1.29	17.6	-638.5 -610.0
Barclays* Eaton Corporation	2.1 L 2.1 L	2.1	4.3 4.1	2.4 2.5	na 1.2	na 2.5	2.6 2.7	1.3 L 2.3	na na	0.7	2,3 L 2,4	4.9	1.29	ла 17.1	-614.7
Fannie Mae	2.1 L		3.9	2.4	1.1	2.2	2.7	2.5	4.9	0.9	2.6	4.6	1.24	17.2	-634.6
J P MorganChase	2.1 L	2.0	4.1	2.5	1.2	2.5	2.5	1.3 L	4.9	na	2.5	4.6	1.25	17.3	-641.9
Morgan Stanley*	2.1 L		3.8 L	2.5	2.7	2.4	2.6	3.2	na	0.7	2.6	4.7	1.31	na 17.0	-624.1
Nomura Securities Northern Trust Company*	2.1 し 2.1 し		3.8 L 4.3	2.7 2.4	1.4 1.9	2,2 na	2.4 2.5	3,4 2,6	na na	na 0,8	2.6 2.8	4.7 4.7	1.35 1.28	17.2 17.5	-634.2 -561.7
RDQ Economics	2,1 L		4.2	2.6	1.3	2.6	2.6	2.9	3.1	1.1	2.8	4.5	1.20	18.0	-644.9
2017 Consensus: February Avg		(2.0)	4.4	2.5	1.5	2.3	2.7	3.0	5.3	0.8	2.7	4.6	1.26	17.4	-620.5
Top 10 Avg		کیکا	4.8	2.8	2.4	2.7	2.9	4.0	7.5	1.1	2.9	4.8	1.34	17.8	-575.6
Bottom 10 Avg		1.8 2.0	4.0 4.4	2.2 2.4	0.8 1.5	2.0 2.4	2.4	2.0 2.9	3.2 5.0	0.7 0.9	2.5 2.7	4.5 4.6	1.20 1.26	17.0 17.3	-653.2 -599.0
January Avg.	2.3						-								i .
Historical data 2013		1.6	3.3	1.5	1.9	-1.4 2.5	1.5	3.5	1.7	0.0	2.4	7.4 6.7	0.92	15.5	-404.9 -425.7
2014		1.8 1.1	4.2 3.7	1.6 0.1	2.9 0.3	3.5 3.5	2.9 3.2	6,0 2.1	5.9 -3.0	0.0	2.5 2.2	6.2 5.3	1.00	16.4 17.4	-423.7
2016		1.3	2.9	1.3	-1.0	2.7	2.7	-0.4	na	0.3	1.8	4.9	1.17	17.5	-561.6
Number Of Forecasts Changed From A M										1					
			~ -							l	~	-	_		1
Down		17 25	26 16	15	16 18	20 15	14 19	14 8	10 14	12 32	8 32	7 37	8 32	4 25	9
Samo Ut		12	16 12	20 19	18 16	15 12	21	8 32	12	32	13	10	12	23 16	4
· ·							2.7	3.1	5.4	0.8	2.6	4.6	1.27	17.4	-625,0
February Mediar February Diffusion Index		2.0 45 %	4.4 37 %	2.5 54 %	1.4 50 %	2.2 41 %						4.0 6 53 %			4 16 %
I remain much	. 70 70		3. 70	J- 70	20 /0	7. 70	- 20 /6	. 0, 70	55 70	''.		/	1 - 7 /	_ ~~	T "

^{*}Former winner of annual Lawrence R. Klein Award for Blue Chip Forecast Accuracy. **Denotes two-time winner.

HAWAIIAN ELECTRIC COMPANY, INC. EXHIBIT A

				2 008	2 250	2 00%	
100.0005	JOB TITLE	1/1/2013 7/1/2013 1	3.000		3.25% 1412016 71112016 :	3.00% 1/1/2017 7/1/2017 1	1/1/2018 7/1/2018
JOB CODE	JOB IIILE	1/1/2013 //1/2013]	11/2014 1/1/2014	71/2013 7/1/2013	1/1/2010 1/1/2010	17172017 17172011	1/1/2010 1/1/2010
TL285	FACILITY OPERATIONS MECHANIC						
	1st 3 mos.	20.83	21.45	22.07	22.75	23.37	23.99
	Next 3 mos.	21.84	22.50	23.16	23.87	24.53	25.19
	Next 6 mos.	22.91 24.06	23.60 24.78	24.29 25.50	25.03 26.28	25.72 27.00	26.41 27.72
	Next 6 mos. Thereafter	25.26	26.02	26.78	27.60	28.36	29.12
	THO COLLON						
CL829	CASHIER		D. 44	0.01	22.07	00.00	00.40
	1st 3 mos. Next 3 mos.	20.39 21.32	21.00 21.96	21.61 22.60	22.27 23.29	22.88 23.93	23.49 24.57
	Next 3 mos.	22.42	23.09	23.76	24.49	25.16	25.83
	Next 6 mos.	23.50	24.21	24.92	25.68	26.39	27.10
	Next 6 mos.	24.65	25.39	26.13	26.93	27.67	28.41
	Thereafter	25.86	26.64	27.42	28.26	29.04	29.82
CLC05	SR INFORMATION STORAGE EQUIPM	ENT OPERATOR					
CL18	SYSTEM OPERATION CLERK						
CL20	TEST AND SUBSTATION CLERK						
CL22	DESKTOP PUBLISHING OPERATOR						
CL104 CL257	POWER PLANT CLERK MOTOR FLEET CLERK						
CL328	METER CLERK						
CL21	PRINT PRODUCTION OPERATOR						
CL684	COMPUTER SYSTEMS OPERATOR TO		04.45	00.07	20.25	22.27	23.99
	1st 3 mos. Next 3 mos.	20.83 21.84	21.45 22.50	22.07 23.16	22.75 23.87	23.37 24.53	25.19
	Next 3 mos.	22.91	23.60	24.29	25.03	25.72	26.41
	Next 6 mos.	24.06	24.78	25.50	26.28	27.00	27.72
	Next 6 mas.	25.26	26.02	26.78	27.60	28.36	29.12
	Thereafter	26.47	27.26	28.05	28.91	29.70	30.49
TL180	CONDENSER CLEANER						
	1st 6 mos.	22.91	23.60	24.29	25.03	25.72	26.41
	Next 6 mos.	24.06 25.26	24.78 26.02	25.50 26.78	26.28 27.60	27.00 28.36	27.72 29.12
	Next 6 mos. Thereafter	26.47	27.26	28.05	28.91	29.70	30.49
CLA49	PROJECT CLERK						
CLA81 CL12	STANDARDS CLERK JOINT POLE AIDE						
CL12 CL13	PROJECT CLERK						
CL15	FIELD SERVICE CLERK						
	1st 3 mos.	21.32	21.96	22.60	23.29	23.93	24.57
	Next 3 mos. Next 3 mos.	22.42 23.50	23.09 24.21	23.76 24.92	24.49 25.68	25.16 26.39	25.83 27.10
	Next 6 mos.	24.65	25.39	26.13	26.93	27.67	28.41
	Next 6 mos.	25.86	26.64	27.42	28.26	29.04	29.82
	Thereafter	27.17	27.99	28.81	29.69	30.51	31.33
T335	TRUCK DRIVER A	27.21	28.03	28.85	29.73	30.55	31.37
1333	THOUR DITTELLY	61.61	20.00	20.00	20	00.00	0.107
CL406	METER READER		B. 45	00.07 4.000=		- 00.07	00.00
	1st 3 mos.		21.45 x 1.0291 = 22.50	= 22.07 x 1.0307 : = 23.16	= 22.75 x 1,0275 : 23.87	= 23.37 24.53	23.99 25.19
	Next 3 mos. Next 6 mos.	21.84 24.06	24.78	25.50	26.28	27.00	27.72
	Next 6 mos.	25.26	26.02	26.78	27.60	28.36	29.12
	Next 6 mos.	26.47	27.26	28.05	28.91	29.70	30.49
	Thereafter	27.81	28.64	29.47	30.37	31.20	32.03
CL23	CUSTOMER TECHNOLOGY CLERK						
CL1013	INVOICE PAYMENT CLERK						
CL17	FUELS RECORDS CLERK						
	1st 3 mas.		23.09 x 1.0291 :		= 24.49 x 1.02/5 25.68	=25.16 26.39	25.83 27.10
	Next 3 mos. Next 3 mos.	23.50 24.65	24.21 25.39	24.92 26.13	26.93	26.39 27.67	28.41
	Next 6 mos.	25.86	26.64	27.42	28.26	29.04	29.82
	Next 6 mos.	27.17	27.99	28.81	29.69	30.51	31.33
	Thereafter	28.51	29.37	30.23	31.16	32.02	32.88
CL1011	PURCHASING CLERK						
	1st 3 mos.	23.50	24.21	24.92	25.68	26.39	27.10
	Next 3 mos.	24.65	25.39	26.13	26.93	27.67	28.41
	Next 6 mos.	25.86 27.17	26.64 27.99	27.42 28.81	28.26 29.69	29.04 30.51	29.82 31.33
	Next 6 mos. Thereafter	28.51	29.37	30.23	31.16	32.02	32.88
	· · · · · · · · · · · · · · · · · · ·					-	

Hawaiian Electric Company, Inc. CIP CT-1 in 2017 RAM Calculations HECO Summary (\$ in 000's)

			ite Base CT-1 Cost		2017	7 Activities			Rate Base CIP CT-1 Cost
			overable 12/31/16	dditions ! months)		ortization ? months)	١	Net Change	Recoverable at 12/31/17
Line	Description	1	(Note 1)			(Note 2)			
1	Depreciation deferral	\$	607	\$ •	\$	(251)	\$	(251)	\$ 356
2	Carrying charge (AFUDC)		1,699	-		(703)		(703)	996
3=1+2	CIP CT-1 deferred costs recoverable	\$	2,306		\$	(954)	\$	(954)	\$ 1,352
			To Sch D1, K1	 		To Sch E		To Sch D1, K1	 Yo Sch D1, K1

- (1) See Transmittal No. 16-01 (Decoupling) Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-D1-001A, filed on March 31, 2016.
- (2) Amortized over 6 years, per Exhibit 1, page 1 of 3 of the Hawaiian Electric 2009 Test Year Rate Case Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed January 28, 2013 in Docket No. 2008-0083. Amortization of CIP CT-1 began May 2013. Refer to CIP CT-1 amortization schedule attached.
- (3) Amounts may not add up due to rounding.

Hawaiian Electric Company, Inc. CIP CT-1 in 2017 RAM Calculations CIP CT-1 Amortization Schedula (\$ in 000's)

AFUDC AFUDC AFUDC AFUDC AFUDC AFUDC AFUDC Equity Equity-Contra Depreciation Debt Full Debt Cost

Amort.	Period	72	months	72	months	72	months	72	months	72	months						
												1		Depreciation	Depreciation	Carrying	Carrying
														Deferral	Deferral	Charge	Charge
		alance per C	3L	(2.947,722)								Total			(rounded)		(bebauci)
1548.	5/2013	2,947,722				1,507,942		1,270,552		1,482,193		4,240,687		1,507,942	1,508	4,218,274	4,218
1	Deb#I:	40330018		18670123		40330018		40330018		40330018							
	Credit	1557	0122	4033	KO018	16870	120	18570	121	15670	125	Monthly Amort		Depreciation Deferrel			
.1	Jun-13	(40,940 58)		40,940.58	(2,906,781)	(20,943 64)	1,488,998	(17,648.56)	1,252,905	(20,308 24)		(58,898)	1 Jun-13	1,486,998	1,487	4,159,687	4,160
19 20	Dec-14 Jan-15	(40,940.58) (40,940.58)		40,940.58 40,940.58	(2,169,851) (2,128,910)	(20,943 64)	1,110,013	(17,648.56)	935,267	(20,308 24)	1,076,337		19 Dec-14	1,110,013	1,110	3,105,118	3,105
21	Feb-15	(40,040,58)		40.940.50	(2,087,970)	(20,943 84) (20,943 84)	1,089,069 1,068,126	(17,646.56) (17,646.56)	917,821 899,974	(20,308.24) (20,308.24)			20 Jan-15 21 Feb-15	1,089,069	1,089 1,088	3,045,531 2,997,944	3,047 2,989
22		(40.940.58)		40,940 58	(2,047,029)	(20,943 64)	1,047,182	(17,648.56)	882,328	(20,305 24)	1,015,412		22 Mar-15	1,047,182	1,047	2,929,357	2,929
23	Apr-15	(40,940.58)	2,008,089	40,940.58	(2,008,089)	(20,943.54)	1,028,238	(17,648 56)	554,681	(20,308 24)	995,104		23 Apr-15	1,025,238	1,026	2,670,770	2.671
24		(40,940 58)		40,940.58	(1,965,148)	(20,943.64)	1,005,295	(17,648.55)	547,035	(20,305 24)	974,795		24 May 15	1,005,295	1,005	2,812,183	2,812
25		(40,940 58)		40,940.58	(1,924,207)	(20,943 64)	984,351	(17,648 58)	529,388	(20,308 24)	954,487		25 Jun-15	984,351	984	2,753,598	2,754
26 27	Jul-15 Aug-15	(40,940 58) (40,940 58)		40,940.58 40,940.58	(1,883,257) (1,842,326)	(20,943.54)	963,407 942,464	(17,648 58)	811,742	(20,308 24)	934,179		28 Jul-15	963,407	963	2,695,008	2,695
28		(40,940 58)		40,940,58	(1,842,326)	(20,943 64) (20,943 64)	921,520	(17,646 56) (17,646 56)	794,095 778,448	(20,308 24) (20,308 24)	913,871 893,562		27 Aug-15 28 Sep-15	942,454 921,520	942 922	2,636,421 2,577,834	2,636 2,578
29		(40,940 58)		40,940,58	(1,780,445)	(20,043 64)	900,576	(17,648.56)	758,802	(20,308 24)	873,254		29 Da-15	900,578	901	2,517,834	2,519
30		(40,940 58)		40,940.58	(1,719,505)	(20,843 64)	679,633	(17,545 55)	741,155	(20,308 24)	852,945		30 Nov-15	879,633	680	2.480.660	2,481
31		(40,940 58)		40,940.58	(1,678,584)	(20,943 64)	858,689	(17,846.56)	723,509	(20.308 24)	632,638		31 Dec-15	858,689	859	2,402,073	2,402
32		(40,940,58)		40,940 58	(1,637,623)	(20,943 64)	837,746	(17,646.56)	705,882	(20,308 24)	612,329		32 Jan-18	837,748	638	2,343,486	2,343
33 34		(40,940.58)		40,940 58	(1,598,683)	(20,943 64)	616,802	(17,848 56)	688,216	(20,308 24)	792,021		33 Feb-18	816,602	817	2,284,598	2,285
35		(40,940.58)		40,940,58 40,940,58	(1,555,742) (1,514,802)	(20,943 64)	705,658	(17,848 56)	670,569	(20,308 24)	771,713 751,405		34 Mar-16 35 Apr-16	795,658	796	2,226,311	2,226
36		(40.940.58)		40,940 58	(1,473,851)	(20,943 64) (20,943 64)	774,915 753,971	(17,848 56) (17,848 56)	652,923 635,276	(20,308 24) (20,308 24)	731,007		36 May-18	774,915 753,971	775 754	2,167,724 2,109,137	2,168 2,109
37		(40,940 58)		40,940.58	(1,432,920)	(20,943 54)	733,027	(17.848.56)	617,629	(20.308.24)	710,788		37 Jun-18	733,027	733	2,050,550	2,103
38		(40,940.58)		40,940.58	(1,391,950)	(20,943 64)	712,084	(17,845 55)	599,983	(20,308 24)	690,480		38 Jul-18	712,084	712	1,991,963	1,992
39		(40,940 58)		40,940.58	(1,351,039)	(20,943 64)	691,140	(17,648 56)	582,336	(20,308 24)	670,172		39 Aug-16	691,140	691	1,933,376	1,033
40		(40,940 58)		40,940.58	(1,310,059)	(20,943 84)	670,196	(17,648 56)	564,690	(20,308 24)	549,864		40 Sep 18	670,195	670	1,874,788	1,675
41 42		(40,940 58) (40,940 58)		40,940.58 40,940.58	(1,259,158) (1,228,238)	(20,943 64)	649,253	(17,646.56)	547,043	(20,308 24)	629,555 609,247		41 Oct-18 42 Nov-18	649,253	649 628	1,815,201	1,616
3			1 187 277		11,187,277	(20,943,64) (20,943,64)	628,309 607,366	(17,648,56) (17,648,56)	529,397	(20,308 24) (20,308 24)	588 939	, , , , , , , , , , , , , , , , , , , 		628,309 627,366		1,757,614	1,750
44		(40.940.58)		40,940 58	(1,140,336)	(20,943 (4)	585,422	(17,048.56)	494,104	(20,308.24)	568,631	· · · · · · · · · · · · · · · · · · ·	44 Jan-17	588,422	588	1,640,440	1,540
45		(40,940 58)		40,940 58	(1,105,358)	(20,943 64)	565,478	(17,646.56)	478,457	(20,308 24)	548,322		45 Feb-17	585,478	585	1,581,853	1,582
45		(40,940.58)		40,940 58	(1,084,455)	(20,943 64)	544,535	(17,646.56)	458,810	(20,308.24)	528,014		46 Mar-17	544,535	545	1,523,266	1,523
47		(40,940.58)		40,940.58	(1,023,515)	(20,943 64)	523,591	(17,648 56)	441,184	(20,308 24)	507,708		47 Apr-17	523,591	524	1,484,578	1,455
48 49		(40,940.58) (40,940.58)		40,940.58 40,940.58	(982,574) (941,633)	(20,943 64) (20,943 64)	502,647 481,704	(17,646.56) (17,646.56)	423,517 405,671	{20,305,24} {20,308,24}	467,398 467,089		48 May 17 49 Jun-17	502,847 481,704	503 482	1,408,091	1,408
50		(40,940.58)		40,940.58	(900,693)	(20,943,64)	480,780	(17,646 56)	388,224	{20,308 24}	445,781		49 Jun-17 50 Jul-17	450,750	481	1,347,504	1,348 1,289
51	Aug-17	(40,940 58)		40,940.58	(859,752)	(20.943.04)	439,816	(17.648 56)	370.578	(20,308 24)	428,473		51 Aug-17	439.818	440	230,330	1,230
52		(40,940 58)	618,612	40,940 58	(818,612)	(20,943 64)	418,873	(17,648.56)	352,931	(20,308 24)	406,165		52 Sep-17	416,673	419	1,171,743	1,172
53		(40,940 58)		40,940.58	(777,671)	(20,943.64)	397,929	(17,646 56)	335,285	(20,308 24)	385,858		53 Oct 17	397,929	398	1,113,150	1,113
54	Nov-17	(40,940,58)		40,840 58 40,940 58	(736,930)	(20,943,64)	376,985	(17,646.55)	317,638	(20,306 24)	365,545		54 Nov-17	376,085	377	1,054,569	1,055
55		(40,940,58) (40,940,58)		40,940 56	[655,0(9)]	(20,943,64)	335,098	(17,648,56) (17,646,56)	209,991_3 282,345	(20,308 24) (20,308 24)	345,240	<u>, , i de de de de de de de de de de de de de </u>	55 Dec 17 58 Jan-18	358,042 335,098	3507	937,394 937,394	937
57		(40,940 58)		40,940 58	(614,100)	(20,943 64)	314,155	(17,648 58)	254,698	(20,306 24)	304,624		57 Feb-15	335,096	314	937,394 878,807	879
58		(40,940 58)	573 168	40,940 58	(573,188)	(20,943 64)	293,211	(17,646 56)	247,052	(20,306 24)	284,315		58 Mai-18	293,211	293	520,220	620
59		(40,940.58)	532,228	40,940.58	(532,228)	(20,043 64)	272,267	(17,646 56)	229,405	(20,308 24)	264,007		59 Apr-18	272,267	272	761,633	762
		(40,940.58)		40,940 58	(491,297)	(20,943 54)	251,324	(17,646,56)	211,750	(20,308 24)	243,699		60 May-18	251,324	251	703,046	703
61 62		(40,940.58)	450,348	40,940.58	(450,345)	(20,943.64)	230,380	(17,645.55)	194,112	(20,308 24)	223,391		61 Jun-18	230,380	230	644,450	544
63		(40,940.58) (40,940.58)		40,940.58 40,940.58	(409,456) (368,455)	(20,943.64) (20,943.64)	209,436 188,493	(17,645 55) (17,645 55)	178,485 158,819	(20,308 24) (20,308 24)	203,082 182,774		62 Jul-18 63 Aug-18	209,436 168,493	209 188	585,871 527,284	588 527
64		(40,940.58)		40,940.58	(327,525)	(20,943.64)	165,493	(17,046.56)	141,172	(20,300 24)	182,774		64 Sep-18	188,493 187,549	168	527,284 458,697	527 489
65		(40,940.58)		40,940.58	(286,584)	(20,943 64)	146,605	(17,545.56)	123,526	(20,308 24)	142,158		65 Oct-18	148,605	147	410,110	410
66		(40,940.58)		40,940.58	(245,643)	(20,943 64)	125,662	(17,648,58)	105,879	(20,308 24)	121,849		68 Nov-18	125,682	126	351,523	352
67		(40,940.58)		40,940 58	(204,703)	(20,943 64)	104,718	(17,648.58)	88,233	(20,308 24)	101,541		67 Dec-18	104,718	105	292,936	293
68		(40,940.58)	153,762	40,940.58	(163,752)	(20,943 64)	B3,775	(17,548 58)	70,588	(20,308 24)	81,233		68 Jan-19	83,775	84	234,349	234
69 70		(40,940,58)	122,622	40,940,58 40,940,58	(122,622) (81,681)	(20,043 64)	62,631	(17,848 58)	52,940	(20,308 24)	60,925		69 Feb-19	62,831	63	175,761	176
71		(40,940.58)	40,941	40,940 58	(40,941)	(20,943 64) (20,943 64)	41,687 20,944	(17,845 56) (17,845 56)	35,293 17,647	(20,308 24) (20,308 24)	40,616 20,308		70 Mar-19 71 Apr-19	41,687 20,944	42 21	117,174 58,587	117 59
72		(40,940.58)		40,940 58	0.00	(20,943 64)	(0.00)	(17,545.56)	0.00	(20,308 24)	0 00		72 May-19	20,544	(0)	35,367 Ô	30
			,,	,	~		,,	, ,		,,				197	10/		

Hawailan Electric Company, Inc. CIS in 2017 RAM Catculations HECO Summary (\$ in 000's)

		CIS I	Rate Base Deferred Costs Recoverable at 12/31/16	Ad	ditions	A	017 Activities mortization 12 months)	_	t Change	Rate Base CIS Deferred Costs Recoverable at 12/31/17
Line	Description		(Note 1)	(110111111111111111111111111111111111111	•	(Note 2)	,,,,		
	CIS Deferred Cost	\$	27,301	\$	-	\$	(3,245)	\$	(3,245)	\$ 24,056
2	CIS Deferred O&M Reclass	\$	1,737	\$	-	S	(206)	\$	(206)	\$ 1,531
3	Carrying charges	\$	1,567	\$	-	\$	(186)	\$	(186)	\$ 1,381
4	Write-Off	\$	(20,339)	\$	-	\$	2,417	\$	2,417	\$ (17,922)
5 = sum 1 - 4	CIS deferred costs recoverable	\$	10,266 To Sch D1, K1			\$	(1,220)		(1,220) Sch D1, K1	9,046 To Sch D1, K1

- (1) See Transmittal No. 16-01 (Decoupling) Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-D1-001B, filed on March 31, 2016.
- (2) Amortized over 12 years, per Exhibit 1, page 2 of 3, footnote 2 of the Hawaiian Electric 2009 Test Year Rate Case Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed January 28, 2013 in Docket No. 2008-0083. Refer to CIS Amortization schedule included.
- (3) Amounts may not add up due to rounding.

Hawaiian Electric Company, Inc. CIS in 2017 RAM Calculations CIS Amortization Schedule (\$ in 000's)

CIS Final	Cost - Amort
(Pate P	see Impact)

			(Rate Base Impact)	Rounded	j
Am	ort. Period	144	months		
	Reg Asset Bala	nce ner Gl			
	Bal. 5/2013	14,636,585			
	=	14,000,000			
1	Jun-13	(101,642.95)	14,534,942.19		
2	Jul-13	(101,642.95)	14,433,299.24		
3	Aug-13	(101,642.95)	14,331,656.28		
4	Sep-13	(101,642.95)	14,230,013.33		
5	Oct-13	(101,642.95)	14,128,370.38		
6	Nov-13	(101,642.95)	14,026,727.43		
7	Dec-13	(101,642.95)	13,925,084.47	 (102)	13,925
8	Jan-14	(101,642.95)	13,823,441.52	(,	10,020
9	Feb-14	(101,642.95)	13,721,798.57		
10	Mar-14	(101,642.95)	13,620,155.62		
11	Apr-14	(101,642.95)	13,518,512.66		
12	May-14	(101,642.95)	13,416,869.71		
13	Jun-14	(101,642.95)	13,315,226.76		
14	Jul-14	(101,642.95)	13,213,583.81		
15	Aug-14	(101,642.95)	13,111,940.85		
16	Sep-14	(101,642.95)	13,010,297.90		
17	Oct-14	(101,642.95)	12,908,654.95		
18	Nov-14	(101,642.95)	12,807,012.00		
19	Dec-14	(101,642.95)	12,705,369.05	(102)	12,705
20	Jan-15	(101,642.95)	12,603,726.09	(102)	12,700
21	Feb-15	(101,642.95)	12,502,083.14		
22	Mar-15	(101,642.95)	12,400,440.19		
23	Apr-15	(101,642.95)	12,298,797.24		
24	May-15	(101,642.95)	12,197,154.28		
25	Jun-15	(101,642.95)	12,095,511.33		
26	Jul-15	(101,642.95)	11,993,868.38		
27	Aug-15	(101,642.95)	11,892,225.43		
28	Sep-15	(101,642.95)	11,790,582.47		
29	Oct-15	(101,642.95)	11,688,939.52		
30	Nov-15	(101,642.95)	11,587,296.57		
31	Dec-15	(101,642.95)	11,485,653.62	(102)	11,486
32	Jan-16	(101,642.95)	11,384,010.66	(102)	11,400
33	Feb-16	(101,642.95)	11,282,367.71		
34	Mar-16	(101,642.95)	11,180,724.76		
35	Apr-16	(101,642.95)	11,079,081.81		
36	May-16	(101,642.95)	10,977,438.86		
37	Jun-16	(101,642.95)	10,877,436.66		
38	Jul-16	(101,642.95)	10,774,152.95		
39	Aug-16	(101,642.95)	10,774,132.95		
40	Sep-16	(101,642.95)	10,570,867.05		
41	Oct-16	(101,642.95)	10,469,224.09		
42	Nov-16	(101,642.95)	10,367,581.14		
43		(101,642.95)	10,367,381.14	(102)	10.2663
77		(101,042,83)	10,200,930.19	(102)	10,266

Hawaiian Electric Company, Inc. CIS in 2017 RAM Calculations CIS Amortization Schedule (continued) (\$ in 000's)

CIS Final Cost - Amort

		(1	Rate Base Impact)	Rounded
44	Jan-17	(101,642.95)	10,164,295.24	
45	Feb-17	(101,642.95)	10,062,652.28	
46	Mar-17	(101,642.95)	9,961,009.33	
47	Apr-17	(101,642.95)	9,859,366.38	
48	May-17	(101,642.95)	9,757,723.43	Yearly Amortization
49	Jun-17	(101,642.95)	9,656,080.47	(1,220)
50	Jul-17	(101,642.95)	9,554,437.52	(3
51	Aug-17	(101,642.95)	9,452,794.57	
52	Sep-17	(101,642.95)	9,351,151.62	
53	Oct-17	(101,642.95)	9,249,508.66	
54	Nov-17	(101,642.95)	9,147,865.71	
55	Dec-17	(101,642.95)	9,046,222.76	(102) 9,046]
56	Jan-18	(101,642.95)	8,944,579.81	
57	Feb-18	(101,642.95)	8,842,936.86	
58	Mar-18	(101,642.95)	8,741,293.90	
59	Apr-18	(101,642.95)	8,639,650.95	
60	May-18	(101,642.95)	8,538,008.00	
61	Jun-18	(101,642.95)	8,436,365.05	
62	Jul-18	(101,642.95)	8,334,722.09	
63	Aug-18	(101,642.95)	8,233,079.14	
64	Sep-18	(101,642.95)	8,131,436.19	
65	Oct-18	(101,642.95)	8,029,793.24	
66	Nov-18	(101,642.95)	7,928,150.28	
67	Dec-18	(101,642.95)	7,826,507.33	
68	Jan-19	(101,642.95)	7,724,864.38	
69	Feb-19	(101,642.95)	7,623,221.43	
70	Mar-19	(101,642.95)	7,521,578.47	
71	Apr-19	(101,642,95)	7,419,935.52	
72	May-19	(101,642.95)	7,318,292.57	
73	Jun-19	(101,642.95)	7,216,649.62	
74	Jul-19	(101,642.95)	7,115,006.67	
75	Aug-19	(101,642.95)	7,013,363.71	
76	Sep-19	(101,642.95)	6,911,720.76	
77	Oct-19	(101,642.95)	6,810,077.81	
78	Nov-19	(101,642.95)	6,708,434.86	
79	Dec-19	(101,642.95)	6,606,791.90	
80	Jan-20	(101,642.95)	6,505,148.95	
81	Feb-20	(101,642.95)	6,403,506.00	
82	Mar-20	(101,642.95)	6,301,863.05	
83	Apr-20	(101,642.95)	6,200,220.09	
84	May-20	(101,642.95)	6,098,577.14	
85	Jun-20	(101,642.95)	5,996,934.19	
86	Jul-20	(101,642.95)	5,895,291.24	
87	Aug-20	(101,642.95)	5,793,648.28	
88	Sep-20	(101,642.95)	5,692,005.33	
89	Oct-20	(101,642.95)	5,590,362.38	
90	Nov-20	(101,642.95)	5,488,719.43	
91	Dec-20	(101,642.95)	5,387,076.48	

Hawaiian Electric Company, Inc. CIS in 2017 RAM Calculations CIS Amortization Schedule (continued) (\$ in 000's)

CIS Final Cost - Amort

			S Final Cost - Amort	
			Rate Base Impact)	Rounded
92	Jan-21	(101,642.95)	5,285,433.52	
93	Feb-21	(101,642.95)	5,183,790.57	
94	Mar-21	(101,642.95)	5,082,147.62	
95	Apr-21	(101,642.95)	4,980,504.67	
96	May-21	(101,642.95)	4,878,861.71	
97	Jun-21	(101,642.95)	4,777,218.76	
98	Jul-21	(101,642.95)	4,675,575.81	
99	Aug-21	(101,642.95)	4,573,932.86	
100	Sep-21	(101,642.95)	4,472,289.90	
101	Oct-21	(101,642.95)	4,370,646.95	
102	Nov-21	(101,642.95)	4,269,004.00	
103	Dec-21	(101,642.95)	4,167,361.05	
104	Jan-22	(101,642.95)	4,065,718.09	
105	Feb-22	(101,642.95)	3,964,075.14	
106	Mar-22	(101,642.95)	3,862,432.19	
107	Apr-22	(101,642.95)	3,760,789.24	
108	May-22	(101,642.95)	3,659,146.29	
109	Jun-22	(101,642.95)	3,557,503.33	
110	Jul-22	(101,642.95)	3,455,860.38	
111	Aug-22	(101,642.95)	3,354,217.43	
112	Sep-22	(101,642.95)	3,252,574.48	
113	Oct-22	(101,642.95)	3,150,931.52	
114	Nov-22	(101,642.95)	3,049,288.57	
115	Dec-22	(101,642.95)	2,947,645.62	
116	Jan-23	(101,642.95)	2,846,002.67	
117	Feb-23	(101,642.95)	2,744,359.71	
118	Mar-23	(101,642.95)	2,642,716.76	
119	Apr-23	(101,642.95)	2,541,073.81	
120	May-23	(101,642.95)	2,439,430.86	
121	Jun-23	(101,642.95)	2,337,787.90	
122	Jul-23	(101,642.95)	2,236,144.95	
123	Aug-23	(101,642.95)	2,134,502.00	
124	Sep-23	(101,642.95)	2,032,859.05	
125	Oct-23	(101,642.95)	1,931,216.09	
126	Nov-23	(101,642.95)	1,829,573.14	
127	Dec-23	(101,642.95)	1,727,930.19	
128	Jan-24	(101,642.95)	1,626,287.24	
129	Feb-24	(101,642.95)	1,524,644.29	
130	Mar-24	(101,642.95)	1,423,001.33	
131	Apr-24	(101,642.95)	1,321,358.38	
132	May-24	(101,642.95)	1,219,715.43	
133	Jun-24	(101,642.95)	1,118,072.48	
134	Jul-24	(101,642.95)	1,016,429.52	
135	Aug-24	(101,642.95)	914,786.57	
136	Sep-24	(101,642.95)	813,143.62	
137	Oct-24	(101,642.95)	711,500.67	
138	Nov-24	(101,642.95)	609,857.71	
139	Dec-24	(101,642.95)	508,214.76	
140	Jan-25	(101,642.95)	406,571.81	
141	Feb-25	(101,642.95)	304,928.86	
142	Mar-25	(101,642.95)	203,285.90	
143	Apr-25	(101,642.95)	101,642.95	
144	May-25	(101,642.95)	0.00	
	,	, ,		

Hawaiian Electric Company, inc. Revenue Decoupling - Rate Base RAM 2016 Major Projects and Other Plant Additions

			Plant	<u>~</u>		ther				team	team	team				team
			Functional Plant	Category		(157,822) Production Other	(250,614) Distribution	(324,930) Transmission	Various	Production Steam	Production Steam	Production Steam	Distribution	Distribution	Distribution	Production Steam
		Over/(Under)	GROSS PUC	Approved	(i) = (d) - (i)	(157,822)	(250,614)	(324,930)	7,161	243,014	1,074,534	424,137	4,016,292	1,410,227	1,276,045	192,513
CULATION			Gross PUC	Approved	(I)= (F) - (G)	5,393,000	15,176,412	4,164,051	2,125,651	2,357,425	5,236,138	5,021,440	3,627,507	4,013,624	3,995,113 [4]	6,995,582
GROSS CALCULATION	İ	Gross Plant	Adds	12/31/16	(H) = (E) - (Q)	5,235,178	14,925,798	3,839,121	2,132,812	2,600,439	6,310,672	5,445,577	7,643,799	5,423,851	5,271,158 [4]	7,188,095
	Project to	Date	Recorded	CIAC	ত্র	(1,993,000)	(5,117,412) 14,925,798			•					(2,825,023)	
		Over/(Under)	NET PUC	Approved	(£) · [F]	(157,822)	(250,614)	(324,930)	7,161	243,014	1,074,534	424,137	4,016,292	1,410,227	1,276,045	192,513
	ís)	PUC	Approved,	net	Ē	3,400,000 [3n]	10,059,000 [3b]	4,164,051 [3r]	2,125,651 [1]	2,357,425 [1]	5,236,138 [1]	5,021,440 [1]	3,627,507 (3d)	4,013,624 [36]	1,170,090 [4]	6,995,582 [1]
MOIT		Net Plant	Adds Thru	12/31/16	(£) = {v} + {D}	3,242,178	9,808,386	3,839,121	2,132,812	2,600,439	6,310,672	5,445,577	7,643,799	5,423,851	2,446,135	7,188,095
NET CALCULATION	2		Net Project	Cost	(D) + (B) = (D)	172,652	(36)	3,839,121		•		٠	•	111	65,719	٠
	2016 Plant Additions		CIAC &	Adjustments	(3)	•	(718)	•	•		•	•			(2,825,023)	
	[2]		Total	Project Cost Adjustments	(8)	172,652	289	3,839,121	•					111	2,890,742	
	Ξ	Net Plant	Adds Thru	12/31/15	(A)	3,069,526	9,808,422	٠	2,132,812	2,600,439	6,310,672	5,445,577	7,643,799	5,423,740	2,380,416	7,188,095
			Plant Addition	Date		2016 straggling	2016 straggling 9,808,422	2016/02						2016 straggling	2016 straggling 2,380,416	
				# Project		P0001370 DOT Airport DSG	Y48500 Various EOTP Phase 2	P0002264 Pukele 80MVATsf #1	Other Protects with costs above the PUC Approved 1 Y00138 Various Kahuku Wind Power	P0001399 W8 Main Transformer Replace	P7650000 W8 Boller Controls Upgrade	P7590000 W7 Controls Upgrade	P0000783 Kakaako Makai-Iwilel 25kV DL	P0000672 Kakasko Makal-Kewato 25kV DL	P0001579 Kakaako Makai DOT Queen-Cook	P0000900 BPT Tank 133 Improvements
			_	t Project #	1	P00013:	3 Variou:		s with costs. 8 Various	P000135	P765000	P759000				P00009(
			Grand	parent	10.000,000	1 - POO	Y48500	•	ther Profests W YOO138	•	•	٠	Y00038	Y00038	Y00038	•
					,	4 →	7	m	⊘	7	m	4	2	9	7	90

- [1] Transmittal No. 16-01 [Decoupling] Hawailan Electric Company RBA Rate Adjustment, HECO-WP-D2-001, filed on March 31, 2016,
- [2] Hawailan Electric Companies' Exemption from and Modification of General Order No. 7 Paragraph No. 2.3(9), Relating to Capital Improvements Capital Projects Completed in 2016, in Docket No. 03-0257, filled on March 30, 2017. See HECO-WP-D2-002.
- Per the Final Decision & Order and Dissenting Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an Interim or final decision and order issued by the commission in the HECO companies' rate cases. Ξ
- [34] Decision and Order, p. 38, Docket No. 2008-0329, For Approval to Commit funds in Excess of \$2,500,000 (excluding customer contributions) for Item P0001370, DOT Alirpont 05G, filed June 25, 2009.
 - [3b] Decision and Order, p. 8, Docket No. 2010-0062, For Approval to Modify Phase 2 of the Fast Gahu Fransmission Project, filed October 19, 2010.
- [3c] Decision and Order, p. 22, Docter No. 2011-0156, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for Item 90001494, Parkele 1st #2 80MVA; Item 90001492, Purkele 1st #2 80MVA; and Item 90002264, Purkele 1st #2 80MVA; and Item 90002264, Purkele 1st #2 80MVA; Item 90001492, Purkele 1st #2 80MVA; The Punds In Excess of \$2,500,000 (excluding customer contributions) for Item 90001499, Purkele 1st #2 80MVA; Item 90001492, Purkele 1st #2 80MVA; Item 90001493, Purkele 1st #2 80MVA; Item 9 2012. Actual total for Item P0002264, Pukele Tsf #1 B0MVA per Hawailan Electric Application, Exhibit Vt Page 1 of 7, filed July 13, 2011.
- [3d] Letter Fram: D. Endo-Omato; Exhibit IX Page 2 of 5, To: Commission; Re: Docket No. 2009-00042, DOT Underground Request/faskasko Makal 25 kV Circuits; Revised Estimate of Cost Savings, dated June 12, 2009. Total grandparent cost approved in Decision and Order, p. 9, Docket No. 2009-00042, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for Item Y00038, DOT Underground Request, and Kakaasko Makai Kewalo and Kakaasko Makai kwilel 25kV Circuits, and a Walver of Rule 13 of Hawaiian Electric's Tariff to Allow Hawallan Electric to Pay for a Portion of the Underground Conversion Cost for Item P0001579, DOT Underground Request, filed August 7, 2009. ₹
- through 12/31/16 is now \$2,2826,023 (per Schedule G1, the 51), the amount of gross plant additions qualifying for 18 RAM is the sum of the PUC approved net project cost of \$1,170,090 + \$2,225,023 = \$3,995,113. See table below. The gross amount over the PUC approved in column 1 of 51,275,604 was determined by taking the total gross plant addition of 55,271,158, less the gross amount qualifying for RB RAM of 53,995,113. Total grandparent cost approved in Decision and Order, p. 9, Docket No. 2009-0042, for Approval to Commit Funds in Excess of 52,500,000 (excluding customer contributions) for item Y00038, DOT Underground Request, and Kakaako Makai-Kewalo and Kakaako Makai-Mile 125V Circuits, and of a Walver of Rule 13 of Hawaiian Electric's Tailf to Allow Hawaiian Electric to Pay for a Portion of the Underground terter from: D. Endo-Omoto; Exhibit IX Page 2 of 5, To: Commission: Re: Docket No. 2009-0042, DOT Underground Request/Sakasko Makal 25 XV Circuits; Revised Estimate of Cost Savings, dated Iune 12, 2009. The PUC approved net project cost of \$1,170,090 for P0001579 and reducting it by the amount of expected contributions as reported on Exhibit IX Page 1 of 5 of \$2,265 (Cash ClaC). As the actual total ClaC. As the actual total ClaC. Enwarcian Enst for Item PRINISTS DOT Underground Ranuact Filad Suggest 7 2009

1,170,090	(900,000)	1,170,090	1,170,090	PUC Approved Net Plant Additions
(3,725,023	(900,000)	(2,825,023)	(096'686'2)	Less: CIAC (Cash and In-Kind)
4,895,113		3,995,113	4,160,050	Gross Plant Additions Qualifying for RB RAM
Thru 12/31/12	2017 CIAC	Thru 12/31/16	070	P0001579 - D&O vs current extimate:
Gross PUC App	Forecasted	Gross PUC App'd		
Estimated	(Sch G2)			

		Gross PUC App'd		Forecasted	Gross PUC App'd	
	020	Thru 12/31/16	Difference	2017 CIAC	Thru 12/31/17	Differ
Σ	4,160,050	3,995,113	(164,937)	 .	4,895,113	7
	(096'686'2)	(2,825,023)	164,937	(900,000)	(3,725,023)	0
	1,170,090	1,170,090		(900,000)	1,170,090	

735,063 735,063

2016 General Order No. 7 (GO7) Report Summary Plant Additions

	2016
Projects	Plant Addition (1)
Less than \$2.5M	234,391,261
Greater than \$2.5M	6,903,308
Total Plant Additions	241,294,569
Less: Major Project additions in 2016	
DOT Airport DSG	(172,652)
Pukele 80MVA Tsf #1	(3,839,121)
Kakaako Makai-Kewalo	(111)
Kakaako Makai DOT Queen-Cook	(2,890,742)
EOTP Phase 2	(682)
	(6,903,308)
Baseline Plant Additions	234,391,261

⁽¹⁾ Source: Hawaiian Electric Companies' Exemption From and Modification General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2016, in Docket No. 03-0257 filed on March 30, 2017.

Hawaiian Electric Company 2017 Plant Additions - Major Projects Support

				CIAC		Gross Plant	2017 Gross	Estimated			
		Plant	PUC	Received/		Adds thru	Mant	Gross Plant		2017 Plant Addition	Future
	Functional	Addition	Approved,	Estimated	Grass PUC	12/31/16	Additions	Adds thru	Over/(Under)	Qualifying for RB	Years
Project	Category	Date	net [1]	CIAC	Approved	[2]	(3)	12/31/17	PUC Approved	RAM (Note A)	[3]
			₹	8	C=A-B	O	lig.	J = O = J)-j=0		
P0002264: Pukele 80MVA Tsf #1	Transmission	2016/02	4,154,051 [1a]		4,164,051	3,839,121	7,418	3,846,539	(317,512)	7,418	
P0001370: DOT Airport DSG	Production Other	2014/08	3,400,000 [1b]	(1,993,000) [1b]	(91) 000'565'5	5,235,178	138,537	5,373,715	(19,285) [1b]	138,537	•
Y00168 P0003205: ERP EAM Hardware	Computers	2017/08	2,590,000 [1c]		2,590,000		2,598,766	2,598,766	8,766	2,590,000	
										2,735,955	

NOTE A: Amount qualifying for 2017 rate base RAM recrovery is limited to the lower of the 2017 gross plant addition (column E) or the PUC approved amount (column C). In the case of straggling costs, the amount qualifying for 2017 rate base RAM recovery is limited to the lower of the 2017 gross plant addition (column E) or the remaining unused balance of the PUC approved amount.

[1] Per the Final Decision & Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an interim or final decision and order issued by the commission in the HECO companies' rate cases." [1a] Decision and Order No. 30689, p. 22, Docket No. 2011-0156, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for Item P0001494, Pukele Tsf #3 80MVA; Item P0001492, Pukele Tsf #2 80MVA; and Item 0002264, Puckle Tsi #1 80MVA, filed October 12, 2012. Actual total for Item P0002264, Puckle Tsi #1 80MVA per Hawalian Electric Application, Exhibit VI Page 1 of 7, filed July 13, 2011.

[1b] Decision and Order, p. 38, Docket No. 2008-0329, For Waiver of the Airport Dispatchable Standby Generation Project from the Competitive Bidding Framework, Approval of a Dispatchable Standby Generation Agreement with the State of Hawaii, Department of Transportation, Approval of the Dispatchable Standby Generation Project Cost Accounting, Approval to Include the Project Fuel Costs in Hawaiian Electric Company, Inc.'s Energy Cost The PUC approved amount of \$3,400,000 is net of contributions. Gross plant additions of \$5,373,715 net of \$1,993,000 contributions received in 2011 is \$3,380,715 and is \$19,285 less than the PUC approved amount of 53.4M net of CIAC. Therefore, the total estimated 2017 gross plant additions of 5138,537 qualify for inclusion in the rate base RAM calculation. Adjustment Clause, and Approval to Commit Funds in Excess of \$2,500,000, filed June 25, 2009.

[1c] Per Decision and Order No. 33861, p. 4, Docker No. 2014-0170, For Approval of an Enterprise Resource Planning and Enterprise Asset Management System implementation Project and Related Accounting Treatment, filed August 11, 2016.

[2] Source: HECO-WP-D2-001.

[3] Source: UlPlanner Budget files. Forecast as of February 15, 2017.

HAWAHAN	ELECTRIC CO., INC.	-		HECO-WP-D4-001	-	
DEFERRE	DINCOME TAXES			NECO-VVF-D4-001	٦	
DEI CIRRE	THOOME TAXES	DR / (CR)	DR / (CR)	DR / (CR)	H	
		HECO	HECO	HECO	7	
		FEDERAL	STATE	TOTAL	T	
DR/(CR)		LIABILITY	LIABILITY	LIABILITY		
LIAB	DESCRIPTION	12/31/2016	12/31/2016	12/31/2016		
					Ц	
28311	Unearned Lease	641.68	-	641.68	Ц	<u> </u>
28312	Accrued Vacation	(326,161.00).	(65,811.84)	(391,972.84)	L	-
28313	Uncollectible Acct	1,397,623.72	255,563,46	1,653,187.18	Н	
28314 28317	Directors Def Comp	13,529.57 348,193,39	1,571.96	15,101.53	-	
28319	Discounted Work Comp Cap to Construct (Cost of Removal)	(84,786,413.04)	63,922.41 (15,513,869.48)	412,115.80 (100,300,282.52)	Н	Γ
28321	Pension	(6,385,290.67)	(1,167,597.90)	(7,552,888.57)	-	
28323	Excess Benefit Plan	858,587.18	152,471.09	1,011,058.27	Н	Γ
28326	Def Exec Comp (Def EICP<IP)	63,196.62	11,557.02	74,753,64	H	
28327	Software (no APPRISE & e business)	52,414.78	43,701.75	96,116.53		
28328	G/L ACRS Retirements	(18,851,811.05)	(3,713,432.92)	(22,565,243.97)		
28330	EICP	493,196.49	74,013.70	567,210.19		_
28331	CIAC	30,352,581.07	9,358,082.71	39,710,663.78	_	
28332	Customer Advances	971,253.10	176,937.27	1,148,190.37		
28333	Capitalized Interest	13,243,642.83	3,370,493.19	16,614,136.02		
28335	Connection Fees	(16,019.85)	(8,444.14)	(24,463,99)		·
28336	Nondeductible Interest	31,693.77	5,795.04	37,488.81	Ц	
28337	Supplemt Benefits - SERP	519,029.19	84,623,71	603,652.90	Ц	ļ <u>-</u>
28338	Nondeductible Vac		-	*	Н	
	LTIP	700,186.73	128,033.97	828,220.70	H	
28341 28347	Waipahu Baseyard Int	111,861.55 175,670.24	20,452.91	132,314,46	H	
28347	Waiau Water Well Pmts Nonutil Bad Debt	1/5,6/0.24	32,138.42	207,808.66	Н	Γ
28350	Outage Loss Adj Exp		(24,509.00)	(24,509,00)	Н	
28401	Genl/Auto (& Accidents)	1,102,720.92	201,640.01	1,304,360.93	Н	_
28403	CWIP Debt Transition	(306,549.65)	(56,057,07)	(362,606.72)	Н	
28404	CWIP Equity Trans	(921,270.05)	(168,461.68)	(1,089,731.73)	П	
28405	Iolani Ct Plaza Sale	57,730.65	(550.76)	57,179.89	Т	
28406	Kaonohi Sale	(37,751.68)	(6,942.61)	(44,694.29)	П	<u> </u>
28407	FAS 109 Flow Through	(151,097.04)	(27,585.49)	(178,682,53)		
28408	Plant Transition	(9,273,825.46)	(1,695,819.07)	(10,969,644.53)		
28409	CWIP Equity Net	(30,215,631,54)	(5,525,124.69)	(35,740,756.23)		
28410	CWIP Equity Grossup	(19,244,120.65)	(3,518,911.68)	(22,763,032.33)	L	<u>L</u>
28411	CWIP Debt	(13,692,846.72)	(2,507,366.75)	(16,200,213.47)	L	
28412	Genl/Auto Liability - Legal	59,013.40	8,362.09	67,375.49	_	
28413	Post Retirement Ben	(335,719.03)	(41,423.38)	(377,142.41)	H	
28414 28418	Reg Liab Federal ITC	397,941.07	73,604.61 (20,152.04)	471,545.68	-	
28419	Reg Liab Excess 283	(109,109.22) 268,348.43	49,709.54	(129,261.26) 318,057.97	Н	····
28422	Miscellaneous	28,511.61	(16,969.99)	11,541.62	-	
28427	Prepaid Expenses	(860,226,32)	(157,297.40)	(1,017,523.72)	-	
28430	FMB X Premium	0.48	(1.24)	(0.76)	Н	
28432	Coal Gasif Costs		(11,273.00)	(11,273.00)	-	
28434	EEO Claims	10,225.32	1,869.79	12,095,11	-	
28435	Rev Bond Differential	(300,607.40)			Γ	
28436	TIP/Rewards Programs	341,486.63	62,703.33	404,189.96		
28437	HACOA		(1,533.00)	(1,533.00)		
28438	BONY Rev	-	(148.00)	(148.00)	L	
28439	GAQS Tel	•	(255.00)	(255.00)	L	
28440	Kalaeloa	•	-	-	<u> </u>	
28441	Sun Power	0.02		0.02	_	<u></u>
28442	Overhaul (Waiau 3 Turbine)	5,678.74	1,038,94	6,717.68	-	
28512	Revenue Bond Cost Amort.	(1,368,909.92)		(1,619,223.98)	H	-
28514 28516	Software (APPRISE only) Honolulu Harbor Reserve	1,396,496.59	(50,607.54) 283,416.94	(50,607,54) 1,679,913,53	-	
28516	Deferred Comp - restricted stock	1,396,496.59	33,743.23	218,279.21	-	
28522	Perry reserve	104,333.38	33,143.23	- 210,213.21	+	
28526	Emissions Fees	582,855.83	106,579,47	689,435,30	H	
28528	Substation land - Kuliovou	-		,	T	-
28530	AES Hawaii PPA	64,753.26	11,840.79	76,594.05	Τ	
28532	CIS Project	(836,542.41)		(988,903.19)	Ţ	<u> </u>
28538	Rate Case Costs	(66,886.21)		(79,117.20)		
28540	Kalaeloa PPA	(607.16)		(718.46)	+-	
28542	QUIPS amortization	(285,870.68)	(52,273.84)	(338,144,52)	L	
28544	OPEB Exec Life	4,163,584.25		4,924,993.45		
28546	Percentage Repairs Allowance	(3,456,638.42)		(4,226,742.37)	+	
28548	Cap interest (D&T)	(3,954,311.20)		(4,966,268.66)	•	
28550	E-Business hardware	(32,884.47)	(8,206.93)	(41,091.40)	+-	ļ
28552	OMS project costs	320,513.20		380,421.41	L	
28556	Substation Land - Waianae	-	-	-	1_	<u></u>

### HAWAINAN ELECTRIC CO, INC. ### DR / (CR) ### DR / (CR) ### DR / (CR) ### DR / (CR) ### DR / (CR) ### DR /	LIATA/ATTABL	ELECTRIC CO. INC.		1	HECO MID DA AAAL	_	
DR / (CR)					HECO-WP-D4-001	\dashv	· · · · ·
HEGO HEGO HEGO HEGO HEGO FEDERAL STATE TOTAL	DEFERRED	INCOME TAXES	DB ((CB)	00 ((00)	DB ((CB)	-	
FEDERAL STATE						-	-
DR.Y.(CR)					:	-	
LIAB DESCRIPTION 1,1231/2016 1231/20						4	
28558 Substation Land - Aira 1.50.66 192.12 1.242.78 1.282.78 1			·			4	
2856 Solar tax credit	LIAB	DESCRIPTION	12/31/2016	12/31/2016	12/31/2016	4	
2856 Solar tax credit							
28568 HR Suites project costs (674,302,12) (125,549,41) (179,881,53) 28568 Solits Saver Program 159,923,57 29,242,91 199,166,48 28570 Pension Tracker (32,111,795,50) (5,871,857,96) (37,983,633,46) 28572 OPEB Tracker 1,188,902,01 217,337,7 1,406,239,73 28573 Substation Land - Barber's Pt (23,197,67)	28558	Substation Land - Aiea		(2.073.65)	(2,073.65)		
159825 Solar Saver Program 159823.57 29.242.91 189.166.48 28570 Pension Tracker (32,111,795.50) (5871,857.95) (37,983,933.46) 28572 OPEB Tracker 1.188,902.01 217,397.72 1.406,299.73 28574 Substation Land - Barber's Pt 28576 Substation Land - Haiku 1.825800 Bitte Earth reserve (1.961.18) (386.59) (2.319.76) 285864 RO Weter Pipeline 283,232.14 517,790.89 335,023.03 359,023.03 359,023.03 366,291.66 63,322.55 409,813.84 369,000 369,00	28560	Solar tax credit	1,050.66	192.12	1,242.78		
28870 Pension Tracker (32,111,795.50) (5,871,867.96) (37,983,693.46) 28974 Substation Land - Barber's Pt	28564	HR Suites project costs	(674,302.12)	(125,549.41)	(799,851.53)		
28570 Pension Tracker (32,111,795.50) (5,871,857.96) (37,983,693.46) 28572 OPEB Tracker 1,188,902.01 217,397.7 1,406,299.73 28573 Substation Land - Barber's Pt 28580 Blue Earth reserve (1,961.18) (356.59) (2,319.76) 28586 RO Water Pipeline 283,232.14 51,790.8 335,033.03 28586 Bg Wind costs 346,291.26 53,322.58 409,613.84 28580 Repairs Adjustment (44,697,972.44) (15,480,842.27) (60,078,314.71) 28592 Stimulus Funds (48,882.89) (6,938.57) (57,821.46) 28593 Bugelet System Replacement (321,379.44) (59,785.00) (380.155.44) 28596 EOTP Interest Amont (111,452.63) (20,380.18) (173,1832.51) 28596 EOTP Interest Amont (111,452.63) (20,380.18) (173,1832.51) 28600 REP project costs 92,291.68 16,876.21 105,167.69 28600 REP project costs (350.442.29) (60,588.71) (110,293.00) 28600 ROLL on Federal PVIEV 427,164.22 77,015.3 499,200.15 28600 ROLL on Federal PVIEV 427,164.22 77,015.3 499,200.15 28600 ROLL on Federal PVIEV 427,164.22 77,015.3 499,200.15 28600 ROLL on Federal PVIEV 427,164.22 77,015.3 499,200.15 28600 ROLL on Federal PVIEV 427,164.22 77,015.3 499,200.15 28600 ROLL on Federal PVIEV 427,164.22 77,015.3 499,200.15 28600 ROLL on Federal PVIEV 427,164.22 77,015.3 499,200.15 28600 ROLL on Federal PVIEV 427,164.22 77,015.3 499,200.15 28600 ROLL on Federal PVIEV 427,164.29 (60,588.71) (110,29.00) 28600 ROLL on Federal PVIEV 427,164.29 (60,588.71) (110,29.00) 28600 ROLL on Federal PVIEV 427,164.29 (60,588.71) (74,28.94.61) 28610 ROLL on Federal PVIEV 427,164.29 (60,588.71) (74,28.94.61) 28610 ROLL on Federal PVIEV 427,164.29 (60,588.71) (74,28.94.61) 28610 ROLL on Federal PVIEV 427,164.29 (74,28.94.61) 28610 ROLL on Federal PVIEV 427,164.29 (74,28.94.61) 28610 ROLL on Federal PVIEV 427,164.29 (74,28.94.61	28568	Solar Saver Program	159,923.57	29,242.91	189,166.48	٦	
28574 Substation Land - Barber's Pt 28576 Substation Land - Barber's Pt 28576 Substation Land - Barber's Pt 28580 Substation Land - Haiku 1.851.89 (3.58.58) (2.319.76) 28580 Regular Earl Preserve (1.961.18) (358.58) (2.319.76) 28580 Regular Substation Land - Haiku 283.232.14 5.739.88 359.023.03 359.023.03 328580 Regular Substation Land - Haiku 283.232.14 5.739.88 359.023.03 359.023.03 328580 Regular Substation Land Regular Substation Land - Regul	28570		(32,111,795,50)	(5,871,857.96)	(37,983,653,46)	٦i	
28576 Substation Land - Barbor's Pt						T	
28576 Substation Land - Haiku			-			T	
28586 Blue Earth reserve					. 1	┪	
28586 Roy Wind costs			/1 961 18)	(358 58)	(2 319 76)	-	
28598 Big Wind costs 346,291.26 63,322.58 409,613.84 28590 Repsire Adjustment (44,597,724 154,680,4227) (60,078,814-17) 28592 Stimutus Funds (48,882.89) (63,38.57) (57,821.49) 28596 Borp Interest Amort (111,452.63) (20,380.18) (131,832.81) (123,839.40) (64,982.89) (102,738.40) (64,983.40)						-1	
28590 Repairs Adjustment						-	
28592 Sümulus Funds						H	
22554 Budget System Replacement (321.379.44) (58.766.00) (380.145.44) 225596 CIP Interest (561.859.34) (102.739.40) (664.599.34) To Schedule K1 226500 ERP Project costs (2.291.68 16.976.21 10.91.67.89) 20.91.68 22602 Reg Lish Federal PV/EV 421.184.22 77.015.93 499.200.15 22603 Reg Lish Federal PV/EV 421.184.22 77.015.93 499.200.15 22604 IVIT project costs (3.254.22.9) (50.586.71) (41.028.00) 22605 Reg Lish Federal PV/EV 421.184.22 77.015.93 499.200.15 22606 RNC						4	
28598 EOTP interest / amort						H	
28598 CIP Interest						Ц	
2291.68 16.876.21 109.167.89 2291.68 16.876.21 109.167.89 28602 Reg Liab Federal PV/EV 421.184.22 77.015.93 489.200.15 28604 IVR project costs (350.442.29) (60.585.71) (411.029.00) 28606 IVR project costs (350.442.29) (60.585.71) (411.029.00) 28606 IVR project costs (350.442.29) (60.585.71) (411.029.00) 28606 IVR project costs (350.442.29) (60.585.71) (411.029.00) 28606 IVR project costs (1,919.785.54) 364.212.25 2,355.001.79 28618 Cost						Ш	
28602 Reg Liab Federal PV/EV						╚	To Schedule K1
28504 VR project costs (350.442.29) (60,586.71) (411,029.00) (28606 NOL			92,291.68	16,876.21	109,167.89		
28504 IVR project costs (350.442.29) (60,586.71) (411.029.00) (28508 Financhise Tax 1,991,789.54 364.212.25 2,355,001.79 (28508 Financhise Tax 1,991,789.54 364.212.25 2,355,001.79 (28514 RAM revenues (14,219.227.64) (2,600.087.23) (16,819.314.87) (16,819.314.87) (28518 RAM revenues (15,954.099.72) (1,088,749.69) (7,042.849.61) (70,042.849.61) (10,078.63) (2,666.00 (7,042.849.61) (10,078.63) (2,666.00 (7,042.849.61) (10,078.63) (2,666.00 (7,042.849.61) (10,078.63) (2,666.00 (2,792.33) (1,68.79.69) (7,042.849.61) (1,078.63) (2,666.00 (2,792.33) (1,68.79.69) (7,042.849.61) (1,078.63) (1,08.79.69) (1,098.92 (1,088.79.69) (1,098.92 (1,088.79.69) (1,098.92 (1,098.			421,184.22	77,015.93	498,200.15	▯	
28606 NOL 3,257,752.00 - 3,257,752.00 28608 Franchise Tax 1,991,789,54 364,212.25 2,356,001.79 28612 CIS interest				(60,586.71)		П	
2868B Franchis Tax 1,991,789,54 364,212,25 2,356,001,79 28614 R8A revenues (14,219,227,64) (2,600,087,23) (18,819,314,87) 28618 RAM revenues (5,954,099,72) (1,088,749,59) (7,042,249,61) 28618 NOL -charitable (10,578,83) 2,566,00 (7,912,53) 28622 NOL -credits 290,372,00 -290,372,00 28622 AMT 937,000,00 -937,000,00 AOCIN Portsion 895,115,53 183,672,31 1,1058,787,84 AOCIDPEB ACCI - PEB Exec Life (857,419,32) (156,787,19) (1,014,206,51) AOCIS ACCI - FX Unrealize 244,305,15 44,672.99 288,978,14 ABOOL - FX Unrealize 244,305,15 44,672.99 288,978,14 FIN 48 interest 31,410,53 5,743,54 37,154,17 50000 Rounding (103,53) (213,97) (317.50) FED ACCOUNT 283, excluding state ITC (227,152,734,96) (45,643,916,37) (272,196,651,33) 28210000 Accelerated Depreciation (265,095,979,93)<				-			
28612 CIS interest				364.212.25		П	
28614 RBA revenues (14,219,227,64) (2,600,087,23) (16,819,314,87) (28616) RAM revenues (5,954,099,72) (1,088,749,88) (7,042,849,61) (7,042,84			- (.,,,.	H	
28616 RAM revenues			(14 219 227 64)	(2 600 087 23)	(16.819.314.87)	Н	
28818 NOL - Charitable (10.578.93) 2.668.00 (7.912.93) 28820 GR. Leuula 27.524.87 2.564.05 30.888.92 28622 NOL - credits 280.372.00 - 290.372.00 28624 AMT 937.000.00 - 937.000.00 ACCIND ACCI - NO Pension 895.115.53 163.672.31 1.058.787.84 ACCIOPEB ACCI - OPEB Exec Life (857.419.32) (156,787.19) (1,014.206.51) ACCIPER ACCI - PX Unrealize 244.305.15 44.672.99 288.978.14 48000 FIN 48 tax 672.133.00 672.133.00 48002 FIN 48 tax 31.410.53 5743.64 37.154.17 50000 Rounding (103.53) (219.397) (317.50) FED ACCOUNT 283 excluding state ITC (227,152,734.96) (45.043.916.37) (272.196.651.33) 28310 State ITC 18.578,038.64 3,379.716.96 21,957.755.60 TOTAL ACCOUNT 283 (208.574,696.32) (41.664.199.41) (250.238.895.73) 28210000 Accel Depr Excess - <t< td=""><td></td><td></td><td>·</td><td></td><td></td><td>Н</td><td></td></t<>			·			Н	
28620 Cit. Lavula 27,524,87 2,564.05 30,088.92 28622 NOL - credits 290,372.00 - 290,372.00 28624 AMT 937,000.00 - 937,000.00 AOCINO AOCI - NO Pension 895,115.53 163,672.31 1,058,787.84 AOCI-PEB Exec Life (857,419.32) (156,787.19) (1,014,206.51) AOCIFX AOCI - PEB Exec Life (857,419.32) (156,787.19) (1,014,206.51) AOCIFX AOCI - PEB Exec Life (857,419.32) (156,787.19) (1,014,206.51) AOCIFX AOCI - PEB Exec Life (857,419.32) (156,787.19) (1,014,206.51) AOCIFX AOCI - PEW LIFE (1857,419.33) (156,787.19) (1,014,206.51) AOCIFX AOCI - PEW LIFE (1857,419.33) (103,51) (103,53) (213,37) (317,50) FIN 48 tax (103,53) (213,97) (317,50) FED ACCOUNT 283, excluding state ITC (227,152,734.96) (45,043,916.37) (272,196,651.33) 28310 State ITC (18,578,038.64 3,379,716.96 21,957,755.60 TOTAL ACCOUNT 283 (208,574,696.32) (41,664,199.41) (250,238,895.73) 28210000 Accelerated Depreciation (265,005,979.93) (12,218,306.60) (277,224,286.53) 28210200 Accel Depr - Deficit (392,363.93) (71,331.81) (463,695,74) TOTAL ACCOUNT 282 (265,398,343.86) (12,289,638.41) (277,687,982.27) TOTAL DEF INCOME TAX - UTILITY (473,973,040.18) (53,953,837.82) (527,926,878.00) 28210300 Nonutility Depreciation 1,147,751.62 307,951.04 1,455,702.66 28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation TOTAL DEF INCOME TAX - NONUTILITY 2,858,112.19 625,098.62 3,493,210.81 TOTAL DEF INCOME TAX - NONUTILITY 2,858,112.19 625,098.62 3,493,210.81 TOTAL DEF INCOME TAX - NONUTILITY 2,858,112.19 625,098.62 3,493,210.81 TOTAL DEF INCOME TAX - NONUTILITY 2,858,112.19 625,098.62 3,493,210.81 TOTAL ACCOUNT 283 (208,574,596.32) (41,654,199.41) (250,238,895.73) Less:						Н	
28622 AGL - credits						Н	
28824 AMT						Н	
AOCINO AOCI - NO Pension 895,115.53 153.672.31 1.058,787.84 AOCIOPEB AOCI - OPEB Exec Life (857.419.32) (156,787.19) (1.014,206.51) AOCIFX AOCI - FX Unrealize 244,305.15 44,672.99 288,978.14 48000 Filh 48 tax - 672,133.00 672,133.00 672,133.00 Filh 48 tax - 672,133.00 672,133.00 Filh 48 tax - 672,133.00 672,133.00 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 5,743.84 37,154.17 Filh 48 interest 31,410.53 Filh 48 interest 31,410.5				•		Н	
ACCIPEB ACCI - OPEB Exec Life (857.419.32) (156,787.19) (1,014.206.51) ACCIFX ACCI - FX Unrealize 244.305.15 44.672.99 28.978.14 46.002 Fill 48 tax - 672,133.00 672,133.00 F72,133.00 F72,		<u> </u>		•		니	
ACCIEX ACCI. FX Unrealize						Ц	
AB000	AOCIOPEB	AOCI - OPEB Exec Life	(857,419,32)	(156,787.19)	(1,014,206.51)	Ш	
## ## ## ## ## ## ## ## ## ## ## ## ##	AOCIFX	AOCI - FX Unrealize	244,305.15	44,672.99	288,978.14	Ш	
Sounding (103.53) (213.97) (317.50)	48000	FIN 48 tax		672,133.00	672,133.00		
FED ACCOUNT 283, excluding state ITC (227,152,734.96) (45,043,916.37) (272,196,651.33) 28310 State ITC 18,578,038.64 3,379,716.96 21,957,755.60 TOTAL ACCOUNT 283 (208,574,696.32) (41,664,199.41) (250,238,895.73) 28210000 Accelerated Depreciation (265,005,979.93) (12,218,306.60) (277,224,286.53) 28210000 Accel. Depr Excess	48002	FIN 48 interest	31,410.53	5,743.64	37,154.17	П	
FED ACCOUNT 283, excluding state ITC (227,152,734.96) (45,043,916.37) (272,196,651.33) 28310 State ITC 18,578,038.64 3,379.716.96 21,957,755.60 TOTAL ACCOUNT 283 (208,574,696.32) (41,664,199.41) (250,238,895.73) 28210000 Accelerated Depreciation (265,005,979.93) (12,218,306.60) (277,224,286.53) 28210100 Accel. Depr Excess	50000	Rounding	(103.53)	(213.97)	(317,50)	П	
28310 State ITC						П	··
28310 State ITC	FED ACCO	LINT 283 excluding state ITC	(227 152 734 96)	(45 043 916 37)	(272 196 651 33)	-	
TOTAL ACCOUNT 283	I EU ACCO	O141 200, excitaing state 110	(221,102,104.00)	(40,040,010.01)	(272,100,001.00)		
TOTAL ACCOUNT 283	20240	Ci-to ITC				Н	
28210000 Accelerated Depreciation (265,005,979,93) (12,218,306,60) (277,224,286,53) (28210100 Accel. Depr Excess	20310		10 570 020 04	2 270 716 06	21 057 755 60		
28210000 Accelerated Depreciation (265,005,979,93) (12,218,306,60) (277,224,286,53) (28210100 Accel. Depr Excess			18,578,038.64	3,379,716.96	21,957,755.60		
28210100 Accel. Depr Excess						-	
28210100 Accel. Depr Excess						-	
28210200 Accel. Depr Deficit (392,363.93) (71,331.81) (463,695.74)		TOTAL ACCOUNT 283	(208,574,696.32)	(41,664,199.41)	(250,238,895.73)		
TOTAL ACCOUNT 282 (265,398,343.86) (12,289,638.41) (277,687,982.27) TOTAL DEF INCOME TAX - UTILITY (473,973,040.18) (53,953,837.82) (527,926,878.00) 28210300 Nonutility Depreciation 1,147,751.62 307,951.04 1,455,702.66 28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation		TOTAL ACCOUNT 283 Accelerated Depreciation	(208,574,696.32)	(41,664,199.41)	(250,238,895.73)		
TOTAL DEF INCOME TAX - UTILITY (473,973,040.18) (53,953,837.82) (527,926,878.00) 28210300 Nonutility Depreciation 1,147,751.62 307,951.04 1,455,702.66 28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation	28210100	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess	(208,574,696.32)	(41,664,199.41)	(250,238,895.73)		
TOTAL DEF INCOME TAX - UTILITY (473,973,040.18) (53,953,837.82) (527,926,878.00) 28210300 Nonutility Depreciation 1,147,751.62 307,951.04 1,455,702.66 28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation	28210100	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess	(208,574,696.32)	(41,664,199.41) (12,218,306.60)	(250,238,895.73) (277,224,286.53)		
TOTAL DEF INCOME TAX - UTILITY (473,973,040.18) (53,953,837.82) (527,926,878.00) 28210300 Nonutility Depreciation 1,147,751.62 307,951.04 1,455,702.66 28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation	28210100	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess	(208,574,696.32)	(41,664,199.41) (12,218,306.60)	(250,238,895.73) (277,224,286.53)		
28210300 Nonutility Depreciation 1,147,751.62 307,951.04 1,455,702.66 28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation	28210100	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit	(208,574,696.32) (265,005,979.93) (392,363.93)	(41,664,199,41) (12,218,306,60) - (71,331,81)	(250,238,895.73) (277,224,286,53) (463,695.74)		
28210300 Nonutility Depreciation 1,147,751.62 307,951.04 1,455,702.66 28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation	28210100	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit	(208,574,696.32) (265,005,979.93) (392,363.93)	(41,664,199,41) (12,218,306,60) - (71,331,81)	(250,238,895.73) (277,224,286,53) (463,695.74)		
28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation	28210100 28210200	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86)	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41)	(250,238,895.73) (277,224,286.53) (463,695,74) (277,687,982.27)		
28301001 Nonutility - Other 1,720,362.30 317,147.58 2,037,509.88 28301002 RHI Tax Allocation	28210100 28210200	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86)	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41)	(250,238,895.73) (277,224,286.53) (463,695,74) (277,687,982.27)		
28301002 RHI Tax Allocation	28210100 28210200 TOTAL DE	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 FINCOME TAX - UTILITY	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18)	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (53,953,837.82)	(250,238,895.73) (277,224,286.53) (463,695.74) (277,687,982.27) (527,926,878.00)		
28301003 UBC Tax Allocation	28210100 28210200 TOTAL DEI	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 FINCOME TAX - UTILITY Nonutility Depreciation	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18)	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (63,953,837.82) 307,951.04	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66		
TOTAL DEF INCOME TAX - NONUTILITY 2,868,112.19 625,098.62 3,493,210.81	28210100 28210200 TOTAL DEI 28210300 28301001	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18)	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (63,953,837.82) 307,951.04	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66		
TOTAL DEF INCOME TAX - NONUTILITY 2,868,112.19 625,098.62 3,493,210.81 TOTAL DEF INCOME TAX (471,104,927.99) (53,328,739.20) (524,433,667.19) RATE BASE CALCULATION TOTAL ACCOUNT 283 (208,574,696.32) (41,664,199.41) (250,238,895.73) Less: 28312 Accrued Vacation (326,161.00) (65,811.84) (391,972.84) 28313 Uncollectible Acct 1,397,623.72 255,563.46 1,653,187.18 28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	2821010D 28210200 TOTAL DE 28210300 28301001 28301002	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18)	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (63,953,837.82) 307,951.04	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66		
TOTAL DEF INCOME TAX (471,104,927.99) (53,328,739.20) (524,433,667.19) RATE BASE CALCULATION TOTAL ACCOUNT 283 (208,574,696.32) (41,664,199.41) (250,238,895.73) Less: 28312 Accrued Vacation (326,161.00) (65,811.84) (391,972.84) 28313 Uncollectible Acct 1,397,623.72 255,563.46 1,653,187.18 28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 TOTAL DE 28210300 28301001 28301002 28301003	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (63,953,837.82) 307,951.04	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878.00) 1,455,702.66 2,037,509.88		
TOTAL DEF INCOME TAX (471,104,927.99) (53,328,739.20) (524,433,667.19) RATE BASE CALCULATION TOTAL ACCOUNT 283 (208,574,696.32) (41,664,199.41) (250,238,895.73) Less: 28312 Accrued Vacation (326,161.00) (65,811.84) (391,972.84) 28313 Uncollectible Acct 1,397,623.72 255,563.46 1,653,187.18 28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 TOTAL DE 28210300 28301001 28301002 28301003	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878.00) 1,455,702.66 2,037,509.88		
TOTAL DEF INCOME TAX (471,104,927.99) (53,328,739.20) (524,433,657.19) RATE BASE CALCULATION TOTAL ACCOUNT 283 (208,574,696.32) (41,664,199.41) (250,238,895.73) Less: 28312 Accrued Vacation (326,161.00) (65,811.84) (391,972.84) 28313 Uncollectible Acct 1,397,623.72 255,563.46 1,653,187.18 28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 TOTAL DE 28210300 28301001 28301002 28301003	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878.00) 1,455,702.66 2,037,509.88		
RATE BASE CALCULATION TOTAL ACCOUNT 283 (208.574,696.32) (41,664,199.41) (250,238,895.73) Less: 28312 Accrued Vacation (326,161.00) (65,811.84) (391,972.84) 28313 Uncollectible Acct 1,397,623.72 255,563.46 1,653,187.18 28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 TOTAL DE 28210300 28301001 28301002 28301003 50001	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 FINCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (63,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88		
RATE BASE CALCULATION TOTAL ACCOUNT 283 (208.574.696.32) (41.664,199.41) (250.238.895.73) Less: 28312 Accrued Vacation (326,161.00) (65.811.84) (391.972.84) 28313 Uncollectible Acct 1,397,623.72 255,563.46 1,653,187.18 28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 TOTAL DE 28210300 28301001 28301002 28301003 50001	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 FINCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (63,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88		
TOTAL ACCOUNT 283 (208.574,696.32) (41,664,199.41) (250.238,895.73)	28210100 28210200 TOTAL DEI 28210300 28301001 28301002 28301003 50001 TOTAL DEI	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 (1.73) 2,868,112.19	(41,664,199.41) (12,218,305.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88 		
TOTAL ACCOUNT 283 (208.574.696.32) (41.664,199.41) (250.238,895.73)	28210100 28210200 TOTAL DEI 28210300 28301001 28301002 28301003 50001 TOTAL DEI	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 (1.73) 2,868,112.19	(41,664,199.41) (12,218,305.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88 		
Less: (326,161,00) (65,811,84) (391,972,84) 28312 Accrued Vacation (326,161,00) (65,811,84) (391,972,84) 28313 Uncollectible Acct 1,397,623,72 255,563,46 1,653,187,18 28314 Directors Def Comp 13,529,57 1,571,96 15,101,53 28317 Discounted Work Comp 348,193,39 63,922,41 412,115,80 28323 Excess Benefit Plan 856,587,18 152,471,09 1,011,058,27 28326 Def Exec Comp (Def EICP<IP) 63,196,62 11,557,02 74,753,64	28210100 28210200 TOTAL DEI 28210300 28301001 28301002 28301003 50001 TOTAL DEI	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 (1.73) 2,868,112.19	(41,664,199.41) (12,218,305.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88 		
28312 Accrued Vacation (326,161.00) (65,811.84) (391,972.84) 28313 Uncollectible Acct 1,397,623.72 255,563.46 1,653,187.18 28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 TOTAL DEI 28210300 28301001 28301002 28301003 50001 TOTAL DEI	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58 	(250,238,895.73) (277,224,286.53) (463,695.74) (277,687,982.27) (527,926,878.00) 1,455,702.66 2,037,509.88 		
28313 Uncollectible Acct 1,397,623.72 255,563.46 1,653,187.18 28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 TOTAL DEI 28210300 28301001 28301002 28301003 50001 TOTAL DEI RATE BAS TOTAL ACC	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58 	(250,238,895.73) (277,224,286.53) (463,695.74) (277,687,982.27) (527,926,878.00) 1,455,702.66 2,037,509.88 		
28314 Directors Def Comp 13,529.57 1,571.96 15,101.53 28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 TOTAL DEI 28210300 28301001 28301002 28301003 50001 TOTAL DEI RATE BAS TOTAL ACC Less:	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 FINCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 (1.73) 2,868,112.19 (471,104,927.99)	(41,664,199.41) (12,218,306,60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58 - 625,098.62 (53,328,739.20) (41,664,199.41)	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88 - (1,73) 3,493,210,81 (524,433,667,19) (250,238,895,73)		
28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 28210200 28210200 28301001 28301002 28301003 50001 TOTAL DEI TOTAL DEI RATE BAS TOTAL ACC Less: 28312	TOTAL ACCOUNT 283 Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 FINCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 [Accrued Vacation	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 (1.73) 2,868,112.19 (471,104,927.99) (208,574,696.32)	(41,664,199.41) (12,218,305.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58 	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88 (1.73) 3,493,210,81 (524,433,667,19) (250,238,895,73) (391,972,84)		
28317 Discounted Work Comp 348,193.39 63,922.41 412,115.80 28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 28210200 28210200 28301001 28301002 28301003 50001 TOTAL DEI TOTAL DEI RATE BAS TOTAL ACC Less: 28312	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 (1.73) 2,868,112.19 (471,104,927.99) (208,574,696.32)	(41,664,199.41) (12,218,305.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58 	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88 (1.73) 3,493,210,81 (524,433,667,19) (250,238,895,73) (391,972,84)		
28323 Excess Benefit Plan 858,587.18 152,471.09 1,011,058.27 28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 28210200 28210200 28210300 28301001 28301002 28301003 50001 TOTAL DEI TOTAL DEI RATE BAS TOTAL ACC Less: 28312 28313	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58 	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878.00) 1,455,702.66 2,037,509.88 		
28326 Def Exec Comp (Def EICP<IP) 63,196.62 11,557.02 74,753.64	28210100 28210200 28210200 28301001 28301001 50001 TOTAL DEI TOTAL DEI RATE BAS TOTAL ACC Less: 28312 28314	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 F INCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp	(208,574,696.32) (265,005,979,93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58 	(250,238,895.73) (277,224,286.53) (463,695.74) (277,687,982,27) (527,926,878.00) 1,455,702.66 2,037,509.88 (1.73) 3,493,210.81 (524,433,667.19) (250,238,895.73) (391,972.84) 1,653,187.18 15,101.53		
	28210100 28210200 TOTAL DEI 28210300 28301001 28301002 28301003 50001 TOTAL DEI TOTAL DEI RATE BAS TOTAL ACC Less: 28312 28313 28314 28317	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 FINCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RHI Tax Allocation UBC Tax Allocation UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 (1.73) 2,868,112.19 (471,104,927.99) (208,574,696.32) (326,161.00) 1,397,623.72 13,529.57 348,193.39	(41,664,199.41) (12,218,306.60) (71,331.81) (12,289,638.41) (63,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88 (1,73) 3,493,210,81 (524,433,667,19) (250,238,895,73) (391,972,84) 1,653,187,18 15,101,53 412,115,80		
1 ZODAU PEICE 1 983, (80.491 / 4.013.701 367.Z10.191	28210100 28210200 28210200 28210200 28210300 28301001 28301002 28301003 50001 TOTAL DEI TOTAL DEI 28312 28313 28314 28317 28323	Accelerated Depreciation Accel. Depr Excess Accel. Depr Deficit TOTAL ACCOUNT 282 FINCOME TAX - UTILITY Nonutility Depreciation Nonutility - Other RH Tax Allocation UBC Tax Allocation UBC Tax Allocation FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 LAccrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan	(208,574,696.32) (265,005,979.93) (392,363.93) (265,398,343.86) (473,973,040.18) 1,147,751.62 1,720,362.30 (1.73) 2,868,112.19 (471,104,927.99) (208,574,696.32) (326,161.00) 1,397,623.72 13,529.57 348,193.39 858,587.18	(41,664,199.41) (12,218,306,60) (71,331.81) (12,289,638.41) (53,953,837.82) 307,951.04 317,147.58	(250,238,895,73) (277,224,286,53) (463,695,74) (277,687,982,27) (527,926,878,00) 1,455,702,66 2,037,509,88 (1,73) 3,493,210,81 (524,433,667,19) (250,238,895,73) (391,972,84) 1,653,187,18 15,101,53 412,115,80 1,011,058,27		

	ELECTRIC CO., INC.			HECO-WP-D4-001	-
JEFERRE	O INCOME TAXES				
		DR / (CR)	DR / (CR)	DR / (CR)	<u> </u>
		HECO	HECO	HECO	<u> </u>
		FEDERAL	STATE	TOTAL	ļ
DR / (CR)		LIABILITY	LIABILITY	LIABILITY	<u> </u>
LIAB	DESCRIPTION	12/31/2016	12/31/2016	12/31/2016	
28336	Nondeductible Interest	31,693.77	5,795.04	37,488.81	
28337	Supplemt Benefits - SERP	519,029.19	84,623.71	603,652.90	+
28338	Nondeductible Vac	313,023.10			
	LTIP	700,186.73	128,033.97	828,220.70	-
28341	Waipahu Baseyard Int	111,861.55	20,452.91	132,314.46	
28347	Waiau Water Well Pmts	175,670.24	32,138.42	207,808.66	
28348	Nonutil Bad Debt	175,070.24	32,130.42	207,000.00	
28350	Outage Loss Adj Exp	· · · · · · · · · · · · · · · · · · ·	(24,509.00)	(24,509.00)	+
28401		4 400 700 00		'	
	Genl/Auto (& Accidents)	1,102,720.92	201,640.01	1,304,360.93	-
28412	Genl/Auto Liability - Legal	59,013.40	8,362.09	67,375.49	
28418	IRP Costs	(109,109.22)	(20,152.04)	(129,261.26)	-
28434	EEO Claims	10,225.32	1,869,79	12,095.11	
28436	TIP/Rewards Programs	341,486.63	62,703.33	404,189.96	
28516	Honolulu Hartor Reserve	1,396,496.59	283,416.94	1,679,913.53	ļ
28520	Deferred Comp - restricted stock	184,535.98	33,743.23	218,279.21	
28522	Perry reserve	- 1	. •		
	Rate Case Costs	(66,886.21)	(12,230.99)	(79,117.20)	<u>. </u>
28544	OPEB Exec Life	4,163,584.25	761,409,20	4,924,993,45	
28550	E-Business hardware	(32,884.47)	(8,206.93)	(41,091.40)	
28580	Blue Earth reserve	(1,961.18)	(358.58)	(2,319.76)	
28586	Big Wind costs	346,291.26	63,322.58	409,613.84	
28600	ERP project costs	92,291.68	16,876,21	109,167.89	1
28606	NOL	3,257,752.00	-	3,257,752.00	HECO-WP-D4-00
28608	Franchise Tax	1,991,789.54	364,212.25	2,356,001.79	1
28614	RBA revenues	(14,219,227.64)	(2,600,087.23)	(16,819,314.87)	,
28616	RAM revenues	(5,954,099.72)	(1,088,749.89)	(7,042,849,61)	-
28618	NOL - charitable	(10,578,93)	2,666.00	(7,912.93)	HECO-WP-D4-00
28622	NOL - credits	290,372.00	-	290,372.00	HECO-WP-D4-00
28624	AMT	937,000.00	-	937,000,00	
	AOCI - NQ Pension	895,115.53	163,672.31	1,058,787.84	
	AOCI - OPEB Exec Life	(857,419.32)	(156,787.19)	(1,014,206.51)	
	AOCI - FX Unrealize	244,305.15	44,672.99	288,978.14	
48000	FIN 48 tax	244,303.13	672,133,00	672,133.00	-
48002	FIN 48 interest	31,410.53	5,743.64	37,154.17	
40002	Adjustment for Chapin Lane CIAC		38,035,54	241,477,42	
	Adjustment for EOTP, CIS and CIP	203,441.88 (395,249.00)	(72,275.00)	(467,524.00)	HECO-WP-D4-00
Total Exclu		(1,712,975.58)	(494,545.89)	(2,207,521.47)	
JOIAI EXCIU	Sions	(1,712,975,50)	(494,545.69)	(2,207,321,47)	+
Total 283 C	eferred Taxes for Rate Base	(206,861,720.74)	(41,169,653.52)	(248,031,374.26)	To Schedule D4
Total 202 F	ofored Tayon to Date Date	/265 200 242 CO	(42 200 020 44)	/277 607 000 07	To Cohodula D4
0121 ZOZ L	Deferred Taxes for Rate Base	(265,398,343.86)	(12,289,638,41)	(277,687,982.27)	To Schedule D4
TOTAL DE	F INCOME TAX - RATE BASE	(472,260,064.60)	(53,459,291,93)	(525,719,356.53)	To Schedule D4
					_
NOTE A> F	Per the CA's 2013 Transmittal No. 13-0	1, page 12, the Cons	sumer Advocate pr	oposed removal of	
	the NOL carryforward, Hawaiian Elect				
	olution of the 2013 decoupling proceed				: [
	to increase ADIT was made. For the o				
	DIT for an amount consistent with the p				1
	ain, the adjustment is a general conces				1
	,				

HAWAHAN ELECTRIC CO., INC. ADIT ON EXCESS DEPRECIATION DECEMBER 31, 2016

State Rate In Park Rate In Table Rate In T		sonice	W8 BOILER	W7 CONTROLS	W8 MAIN	KAHUKU WIND	KAKAAKO KAKAAKO MAKALIWILEI MAKALKEWALO	KAKAAKO IAKAI-KEWALO	KAKAAKO MAKALDOT	BPT TANK 133 IMPR	TOTAL
HECO-WP-E-Gul (105.959) (27.844) (10.34) (70.31) (527.941) (117.296) (97.331 (3.088) (97.331) (3.088) (9.88.78 (9.88.78 (3.2.941) (3.2.9	FEDERAL DEFERRED TAXES	 1									
HECO-WP-f-001 32.8947% 32.8947780 60.150376% 60.	State Tax Depreciation Book Depreciation	HECO.WP-E-001	366,073	106,063	88,778	7,410	862,941	217,792	188,074	21,117	1,858,248 (918,778)
Pepreciation Line 3 * Line 4	Subtotal	Line 1 + Une 2	260,134	78,219	57,434	337	335,000	100,496	90,641	17,209	939,470
Line 3 * Line 4 881,370 25,720 18,893 111 110,197 33,058 29,816 5,661 106,815 3,091 1,002,910 1,002,	ive Federal Tax Rate	HECO-WP-F-001	32.8947%	32.8947%	32.8947%	32.8947%	32.8947%	32.8947%	32.8947%	32.8947%	32.8947%
Line 2 Line 2 C260,134 C78,219 C57,344 C537 C526,098 C528,44	il Deferred Tax on State Depreciation	Line 3 * Line 4	85,570	25,730	18,893	Ξ	110,197	33,058	29,816	199'\$	309.036
Line 2	Addback State Tax Depreciation	Line 3	(260,134)	(78,219)	(57,434)	(337)	(335,000)	(100,496)	(90,641)	(17.209)	(939,470)
Line 6 + 7 + 8	Federal Tax Depreciation		720,305	265,098	165,898	7,286	2,439,617	814,011	732,061	106,815	5,251,091
time of T + 8 354,232 159,035 77,120 (124) 1,576,676 596,219 543,987 85,698 3,392, 35% nt Line of T + 8 354,232 1556 26,922 (43) 551,837 208,677 190,395 29994 1,187 nt Line of Lin	Book Depreciation	Line 2	(105,939)	(27,844)	(31,344)	(7,073)	(527,941)	(117,296)	(97,433)	(3.908)	(918,778)
35% 35% <td>Federal State Difference</td> <td>Line 6 + 7 + 8</td> <td>354,232</td> <td>159,035</td> <td>77,120</td> <td>(124)</td> <td>1,576,676</td> <td>596,219</td> <td>543,987</td> <td>85,698</td> <td>3,392,843</td>	Federal State Difference	Line 6 + 7 + 8	354,232	159,035	77,120	(124)	1,576,676	596,219	543,987	85,698	3,392,843
Line 5 + Line 11 209,551 81,392 45,885 68 662,034 241,735 220,211 35,655 26,994 Line 11 209,551 81,392 45,885 68 662,034 241,735 220,211 35,655 220,211 35,655 220,211 25,6	ate on Federal Only Adjustment	HECO-WP-F-001	35%	35%	35%	35%	35%	35%	35%	35%	35%
Line 5 + Line 11 209,551 81,392 45,885 68 662,034 241,735 220,211 35,655 Line 1 366,073 106,063 88,778 7,410 862,941 217,792 188,074 21,117 Line 1 + Line 2 266,134 78,219 57,434 337 335,000 100,496 90,641 17,209 HECO-WP-F-061 6.0150376% 6.	al Deferred Tax Adjustment	Line 9 * Line 10	123,981	55.662	26,992	(43)	551,837	208,677	190,395	29,994	1,187,495
Line 1 Line 2 Line 2 Line 2 Line 2 Line 2 Line 1 + Line 2 Line 1 + Line 2 Line 1 + Line 1 Line	Federal Deferred Taxes	Line 5 + Line 11	209,551	81,392	45.885	89	662,034	241,735	220,211	35,655	1,496,531
Line 1 366,073 106,063 88,778 7,410 862,941 217,792 188,074 21,117 Line 2 (105,939) (27,844) (31,344) (7,073) (527,941) (117,296) (97,433) (3,908) Line 1 + Line 2 266,134 78,219 57,434 337 335,000 100,496 90,641 17,209 HECO-WP-F-001 6.0150376% 6.0150376% 6.0150376% 6.0150376% 6.0150376% 6.0150376% 6.0150376% Line 15 + Line 16 15.647 4,705 3,455 20 20,150 6,045 5,452 1.035 Line 12 + Line 17 225,198 86,097 49,340 88 682,184 247,780 225,663 36,690 Line 12 + Line 17 10 Sch D1 to	E DEFERRED TANES		į.								7J 49S 03
Line 1 + Line 2 (105,939) (27,844) (31,344) (7,073) (527,941) (117,296) (97,433) (3,908) [3,908] [1,101] [1,109] [1,100] [1,101] [1,109] [1,100] [1,10	Tax Depreciation	Line 1	366,073	106,063	88,778	7,410	862,941	217,792	188,074	21,117	1,858,248
Line 1 + Line 2 260,134 78,219 57,434 337 335,600 100,496 90,641 17,209 HECO-WP-F-001 6,0150376% 6,0150376% 6,0150376% 6,0150376% 6,0150376% 6,0150376% Line 15 * Line 15 * Line 17 225,198 86,097 49,340 88 682,184 247,780 225,663 36,690 Line 12 + Line 17 225,198 86,097 49,340 88 682,184 247,780 225,663 36,690 Line 12 + Line 17 Line 18 + Line 17 Line 19 + Line 19 Line 19 + Line 19 Line 19 + Line 19 + Line 19 Line 19 + Line 19 Line 19 + Line 19 Line 10 + Line 10 + Line 10 Line 10 + Line 10 Line 10 + Line 10 + Line 10 Line 10 Line 10 Line 11 + Line 11 Line 12 + Line 11 Line 12 Line 12 + Line 17 Line 19 Line 19 Line 19 Line 10 + Line 10 Line 10 Line 10 Line 10 Line 11 + Line 11 Line 11 Line 11 Line 11 Line 12 + Line 13 Line 14 Line 14 Line 15 + Line 17 Line 16 Line 17 Line 17 Line 17 Line 17 + Line 17 Line 18 Line 18 Line 19 Line 18 + Line 19 Line 19 Line 19 Line 19 Line 19 + Line 10 Line 10 Line 10 Line 10 Line 10 + Line 11 Line 11 Line 11 Line 11 Line 11 + Line 12 Line 13 Line 14 Line 14 Line 12 + Line 14 Line 15 Line 15 Line 16 Line 16 Line 17 + Line 18 Line 18 Line 18 Line 18 Line 19 + Line 19 Line 19 Line 19 Line 19 Line 10 + Line 10 Line 10 Line 10 Line 10 + Line 11 Line 10 Line 10 Line 11 + Line 12 Line 19 Line 10 Line 10 Line 10 + Line 10 Line 10 Line 10 Line 10 Line 10 + Line 10 Line 10 Line 10 Line 10 Line 10 + Line 10 Line 10 Line 10 Line 10 Line 10 + Line 10 Line 10 Line 10 Line 10 Line 10 + Line 10 Line 10 Line 10 Line 10 Line 10 Line 10 Line 10 + Line 10 Line 1	Depreciation	Line 2	(105,939)	(27,844)	(31,344)	(7.073)	(527,941)	(117,296)	(97,433)	(3,908)	(918.778)
HECO-WP-F-061 6.0150376% 6.015037	tal	Line 1 + Line 2	260,134	78,219	57,434	337	335,000	100,496	1190'06	17,209	939,470
Line 15 * Line 16 15.647 4,705 3,455 20 20,150 6,045 5,452 1,035 to Sch D1 t	iive State Tax Rate	HECO-WP-F-061	6.0150376%	6,0150376%	6.0150376%	6.0150376%	6.0150376%	6.0150376%	6.0150376%	6.0150376%	6.0150376%
to Sch D1 to Sch	State Deferred Taxes	Line 15 º Line 16	15,647	4,705	3,455	20	20,150	6,045	5,452	1.035	56,509
to Sch Di to Sch Di to Sch Di to Sch Di to Sch Di to Sch Di to Sch Di to Sch Di to Sch Di to Sch Di	AL DEFERRED TANES	Line 12 + Line 17	225,198	86,097	49,340	88	682,184	247,780	225,663	36.690	to Sch D4 1,553,040
			to Sch DI	to Sch D1	to Sch D1	to Sch D1	to Seh DI	to Sch D1	to Sch D1	to Sch D1	1.553,040 to Seh Da

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION W8 BOILER

2015 2016		26,540 24,552 3,659 3,384 1,515 1,402 (668) (618) 36 3	31,082 28,723 691,582 720,305 HECO-WP-D4-002, page i	53,081 49,104 7,317 6,768 3,030 2,803 (1,336) (1,235) 3	62,095 57,445 308,628 366,073 HECO-WP-D4-002, page
2014		28,696 3,955 1,638 (9,598)	24,691 660,500	57,392 7,910 3,276 (694)	67,884 246,533
2013		31,019 4,276 23,543	58,838 635,809	62,038 8,552 1,702	72,292 178,649
2012		33,537 61,451	94,988 576,971	67,073 4,442	71,515
2011		481,983	481,983	34,842	34,842
Sonus		88888	. "	00000	
Life E		22222		2 2 2 2 2	
Plant Acct Life Bonus		Steam Steam Steam Steam Steam		Steam Steam Steam Steam Steam	
Disallowed Costs		929,123 118,460 45,384 (18,503)	1,074,534	929,123 118,460 45,384 (18,503)	1,074,534
Less PUC Approved Amt		5,236,138	5,236,138	5,236,138	5,236,138
Total Basis		6,165,261 118,460 45,384 (18,503)	6,310,672	6,165,261 118,460 45,384 (18,503)	6,310,672
Description		8/23/2011 W8 Boiler Controls Upgrade v2012 W8 Boiler Controls Upgrade v2013 W8 Boiler Controls Upgrade v2014 W8 Boiler Controls Upgrade v2015 W8 Boiler Controls Upgrade	Total Cumulative	8/23/2011 W8 Boiler Controls Upgrade v2012 W8 Boiler Controls Upgrade v2013 W8 Boiler Controls Upgrade v2014 W8 Boiler Controls Upgrade v2015 W8 Boiler Controls Upgrade	Total Cumulative
DIS		8/23/201. v2012 v2013 v2014 v2015	_	8/23/2011 v2012 v2013 v2014 v2015	
Project No.	FEDERAL	P7650000	HAWAII	P7650000	

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION W7 CONTROLS UPGRADE

2016		(305) 3,402 9,523 275	12,896 265,098 -002, page 1	(611) 6,803 19,046 550 3	25,791 106,063 02, page 1
2015		(330) 3,678 10,294 297 18	13,957 12,896 252,202 265,098 HECO-WP-D4-002, page	(660) 7,356 20,588 595 1	27,880 25,791 80,272 106,063 HECO-WP-D4-002, page
2014		(357) 3,976 11,129 4,273	19,021 238,245	(714) 7,951 22,259 309	29,805
2013		(386) 4,298 159,949	163,861 219,224	(771) 8,596 11,563	19,388
2012		(417) 61,773	61,356 55,363	(834) 4,466	3,632
2011		(5,993)	(5,993)	(433)	(433)
Sonus		22 22 22	I II	00000	ı u
Life B		22222		22222	
Plant Acct Life Bonus		Steam Steam Steam Steam		Steam Steam Steam Steam	
Disaffowed Costs		(11,552) 119,081 308,336 8,237 35	424,137	(11,552) 119,081 308,336 8,237 35	424,137
Less PUC Approved Amt		5,021,440	5,021,440	5,021,440	5,021,440
Totaí Basis		5,009,888 119,081 308,336 8,237 35	5,445,577	5,009,888 119,081 308,336 8,237 35	5,445,577
Description		11/2/2011 W7 Controls Upgrade v2012 W7 Controls Upgrade v2013 W7 Controls Upgrade v2014 W7 Controls Upgrade v2015 W7 Controls Upgrade	Total Cumulative	11/2/2011 W7 Controls Upgrade v2012 W7 Controls Upgrade v2013 W7 Controls Upgrade v2014 W7 Controls Upgrade v2015 W7 Controls Upgrade	Total Cumulative
DIS		11/2/2011 v2012 v2013 v2014 v2015		11/2/2011 v2012 v2013 v2014 v2015	
Project No.	FEDERAL	P7590000	HAWAII	P7590000	

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION W8 MAIN

Project No.	DIS	Description	Total Basis	Less PUC Approved Amt	Disallowed Costs	Plant Acct Life Bonus	Life (Sortus	2011	2012	2013	2014	2015	2016
FEDERAL														
P0001399	8/-/11 v2012	8/-/11 W8 Main Transformer Replace v2012 W8 Main Transformer Replace	2,627,959	2,357,425	270,534	Steam Steam	20 20	2 2	140,340	9,765 10,271	9,032	8,355 661	7,728	7,149 566
	v2013	W8 Main Transformer Replace	(47,320)		(47,320)	Steam	20	20			(24,547)	(1,708)	(1,580)	(1,461)
		Total	2,600,439	2,357,425	243,014				140,340	20,036	(14,800)	7,308	6,760	6,254
		Cumulative						I	140,340	160,376	145,576	152,884	159,644 1 165,898	165,898
HAWAII														- Alexander de la companya de la com
P0001399	8/-/11	8/-/11 W8 Main Transformer Replace	2,627,959	2,357,425	270,534	Steam	20	0	10,145	19,530	18,064	16,711	15,456	14,298
	v2012	W8 Main Transformer Replace	19,800		19,800	Steam	20	0		743	1,429	1,322	1,223	1,131
	v2013	W8 Main Transformer Replace	(47,320)	•	(47,320)	Steam	20	0			(1,775)	(3,416)	(3,160)	(2,923)
		Total	2,600,439	2,357,425	243,014			1 1	10,145	20,273	17,718	14,617	13,519	12,506
		Cumulative						l	10,145	30,418	48,136	62,753	76,272 [88,778
													HECO-WP-D4-002, page 1	002, page 1

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION KAHUKU WIND

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION KAKAAKO MAKAI-IWILEI 25Kv DL

Project No.	DIS	Description	Total Basis	Less PUC Approved Amt	Disallowed Costs	Plant Acct Life Bonus	t Life B	Souns	2013	2014	2015	2016
FEDERAL	_											
P0000783	7/-/13 v2014 v2015	Kakaako Makai-Iwilei 25Kv DL Kakaako Makai-Iwilei 25Kv DL Kakaako Makai-Iwilei 25Kv DL	6,661,331 485,650 496,818	3,627,507	3,033,824 485,650 496,818	Oistr Oistr Oistr	50 20 20 20	8 8 8	1,573,796	109,506 251,931	101,284 17,530 257,724	93,700 16,213 17,933
		Total Cumulative	7,643,799	3,627,507	4,016,292			1 11	1,573,796	361,437	376,538 2,311,771 L	127,846
HAWAII	_										HECO-WP-D	HECO-WP-D4-002, page 1
P0000783	7/-/13 v2014	Kakaako Makai-Iwilei 25Kv DL Kakaako Makai-Iwilei 25Kv DL	6,661,331 485,650	3,627,507	3,033,824	Distr Distr	20 20	00	113,768	219,012	202,568 35,059	187,399
	v2015		496,818		496,818	Distr	70	0			18,631	35,865
		Total	7,643,799	3,627,507	4,016,292			1 1	113,768	237,224	256,258	255,691
		Cumulative						ar T	113,768	350,992	052,709	862,941
											HECO-WP-D	HECO-WP-D4-002, page 1

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION KAKAAKO MAKAI-KEWALO 25Kv DL

2016		31,556 16,781		48,395	814,011	нЕСО-WP-D4-002, ряде 1	63,112 33.561	4	6,677	115 217,792 HECO-WP-D4-002, page 1
2015		34,118 241,167		275,285	765,616	HECO-WP-[68,235	2	85,669	121,115 HECO-WP-0
2014		490,331		490,331	490,331		35,446		35,446	35,446
Snuo		20 20		1 1	IJ		00	•	•	ı
Life B		2 2					2 2	;		
Plant Acct Life Bonus		Distr Distr					Distr Distr			
Disallowed Costs		945,216	111	1,410,227			945,216	111	1,410,227	
Less PUC Approved Amt		4,013,624		4,013,624			4,013,624		4,013,624	
Total Basis		4,958,840	111	5,423,851			4,958,840 464 900	111	5,423,851	
Description		Kakaako Makai-Kewalo 25Kv DL Kakaako Makai-Kewalo 25Kv DL		Total	Cumulative		Kakaako Makai-Kewalo 25Kv DL Kakaako Makai-Kewalo 25Kv DI		Total	Cumulative
DIS		v2014 v2015	v2016				v2014	v2016		
Project No.	FEDERAL	P0000672				HAWAII	P0000672			

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION KAKAAKO MAKAI DOT QUEEN-COOKE

Project No. D FEDERAL P0001579 v20	DIS v2014 v2015 v2016	Description Kakaako Makai DOT Queen-Cooke Kakaako Makai DOT Queen-Cooke Total Cumulative	Total Basis 1,961,600 418,816 2,890,742 5,271,158	Less PUC Approved Amt 1,170,090 2,825,023 3,995,113	Disallowed Costs 791,510 418,816 65,719 1,276,045	Plant Acct Life Bonus Distr 20 50 Distr 20 50 Distr 20 50	11 Life 20 20 20	80nus 50 50 50	410,596 410,596 410,596	28,570 217,261 245,831 656,427 L	5 2016 570 26,425 261 15,117 34,092 831 75,634 427 732,061 J HECO-WP-D4-002, page 1
,	v2014 v2015 v2016	Kakaako Makai DOT Queen-Cooke Kakaako Makai DOT Queen-Cooke Kakaako Makai DOT Queen-Cooke Total	1,961,600 418,816 2,890,742 5,271,158	1,170,090 2,825,023 3,995,113	791,510 418,816 65,719 1,276,045	Distr Distr Distr	20 20 20 20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29,682 29,682 29,682	57,139 15,706 72,845 102,527	,139 52,849 ,706 30,234 2,464 845 85,547 ,527 188,074 HECC-WP-D4-002, page 1

HECO-WP-D4-002 PAGE 9 OF 9

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION BPT TANK 133 IMPROVEMENTS

2016		6,949	99,866 6,949 99,866 106,815	HECO-WP-D4-002, page 1	13,898	7,219 13,898 7,219 21,117 HECO-WP-D4-002, page 1
2015		998'66	998'66	HECO-WP-L	7,219	7,219 7,219 HECO-WP-D
Sonus		20	1 11		0	1 11
Life 6		20			20	
Plant Acct Life Bonus		Steam			Steam	
Disallowed Costs		192,513	192,513		192,513	192,513
Less PUC Approved Amt		6,995,582	6,995,582		6,995,582	6,995,582
Total Basis		7,188,095	7,188,095		7,188,095	7,188,095
Description		BPT Tank 133 Improvements	Total Cumulative		BPT Tank 133 Improvements	Total Cumulative
DIS		v2015			v2015	
Project No.	FEDERAL	P0000900		HAWAII	P0000900	

HAWAIIAN ELECTRIC CO., INC. ADJUSTMENT TO RATE BASE FOR REG ASSET ON EOTP, CIP, CIS

	+ = addback - = deduct							DR / (CR)	DR / (CR)	DR / (CR)
	2011 Add'i Debt	2012 Add'l Debt	2013 Add'l Debt	2014 Add'i Debt	2015 Add'l Debt	2016 Add'l Debt	Cumulative Add'l Debt	32.8947% Def Fed	6.0150% Def State	Total Def Tax
EOTP interest (7/11 - 3/12) EOTP amort beg 4/12	450,028	140,706 (73,845)	(98,460)	(98,460)	(98,460)	(98,460)	590,734 (467,685)	194,320 (153,844)	35,533 (28,131)	229,853 (181,975)
Total EOTP	450,028	66,861	(98,460)	(98,460)	(98,460)	(98,460)	123,049	40,476	7,402	47,878
CIP interest (7/11 - 5/13) CIP amort beg 6/13	415,582	726,147	320,463 (142,158)	(243,699)	(243,699)	(243,699)	1,462,192 (873,255)	480,984 (287,254)	87,951 (52,526)	568,935 (339,780)
Total CIP	415,582	726,147	178,305	(243,699)	(243,699)	(243,699)	588,937	193,730	35,425	229,155
CIS interest (5/12 - 5/13) CIS amort beg 6/13		545,064	152,938 (33,931)	(58,167)	(58,167)	(58,167)	698,002 (208,432)	229,606 (68,563)	41,985 (12,537)	271,591 (81,100)
Total CIS	-	545,064	119,007	(58,167)	(58, 167)	(58,167)	489,570	161,043	29,448	190,491
TOTAL	865,610	1,338,072	198,852	(400,326)	(400,326)	(400,326)	1,201,556	395,249	72,275	467,524

To HECO-WP-D4-001, page 3

The GL balance includes the AFUDC debt and the AFUDC additional debt.

The Rate base balance includes just the AFUDC debt.

The difference between GL and Rate base balance is the AFUDC additional debt.

	myforward
ARIES	at - NOL Ca
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HECO	Deferre

		0	O		3043 404	- 0	9 Tan Dat	nate Toy Dat	JOSE Tay Das	10000	(a)	E 22 K K K K
As Recorded Gress	Z010 Tax Ret Fed Taxable Inc (Loss)	2010 Tax Ket 2010 Amendykak ed Taxable Inc Return Fed (Less) Taxable Inc (Less)	Fed Texable inc (Less)	Zuil Amendikak Return Fed Taxable Inc (Loss)	Fod Taxable inc (Loss)	Luiz Amanarkak Ratum Fod Taxable Inc (Loss)		Fed Taxable Inc (Loss)**	Fed Taxable Inc (Loss) **	Fed Taxable Inc Fed Taxable Inc Fed Taxable Inc Fed Taxable Inc (Loss) (Loss) (Loss)	Cumulative	Deferred Tax Asset
HECO, RHI, UBC	46,592,802	(2,452,466)	(63,882,338)	1,740,726	(32,023,685)	4,426,286	(43,462,445) 718,873	(52,278,272)	39,711,161 8,075,929	58,774,647	(42,853,584)	(14,998,754)
3 4 MFCO	54,050,151	(2,655,393)	(56,854,585)	1,730,806	(29,653,080)	4,426,286	(42,743,772)	(51,114,511)	47,787,090	72,173,729	(23,736,517)	(998,647)
	59,438,280	(2.645.921)	(75,740,767)	1,726,238	(37,378,181)	4,426,288	(54,457,739)	(59,541,894)	65,241,001	72,340,901	(26,589,796)	(9.306.428)
Adjustments	400 300		7 753 876		18 294 269		7 977 913	7 115 451	7 853 164	3.131.900	51 890 668	18 161 734
7 HELCO	(367,462)		1,131,558		4,157,335		1,507,981	1,445,537	784.341	660,376	9,319,668	3,261,883
	(602.666)		8,885,433		22,451,604		9,485,194	8,560,988	8,637,505	3,792,276	61,210,334	21,423,617
9 MECO	(1,654,816)		942,477		3,485,656		1,683,843	1,700,763	646,670	224,817	7,029,410	2,460,293
	(2,257,482)		9,827,910		25,937,260		11,169,037	10,261,751	9,284,175	4,017,093	68,239,744	23,883,910
As Adjusted												
11 HECO	46,357,598	(2,452,466)	(56,128,463)	1,740,726	(13,729,416)	4,426,286	(35,485,232)	(45,162,821)	47,564,325	61,906,547	9,037.084	3,162,979
12 HELCO	7,089,887	(202,927)	8,159,311	(9.920)	6,527,940		2,226,654	2,609,298	8,860,270	14,059,458	49,319,971	17,261,990
	53,447,485	(2,655,393)	(47,969,152)	1,730,806	(7,201,476)	4,426,286	(33,258,578)	(42,553,523)	56,424,595	75,966,005	59,357,055	20,424,969
14 MECO	3,733,313	9,472	(17,943,705)	(2,568)	(4,239,445)	•	(10,030,124)	(6,726,620)	18,100,581	391,989	(16,707,107)	(5.847.488)
	57,180,798	(2,645,921)	(65,912,857)	1,728,238	(11,440,921)	4,426,286	(43,288,702)	(49,280,143)	74,525,176	76,357,994	41,649,948	14.577.481

(998,647) (Line 3, Column I) (2,549,478) 7,913 1 (3,540,211) HECO WP-04-001 Reconciliation to HECO ADIT Balance:
Net Operating Loss Deferred Tex Asset
Federal Tex Credit Carryforwards
Charitable Contribution
Rounding
HECO ADIT Balance Recorded - Federal

• HECO records deferred tax asset based on combined HECO and HELCO income. • Includes RAR adjustments related to Net Operating Loss carryback

ADIT	3,257,752.00 HECO-WP-04-001, page 3	(7,912,93) HECO-WP-04-001, page 3	290,372,00 HECO-WP-04-001, page 3	3,540,211.07
	NOL	NOL-charitable	NOL-credits	Total
	28606	28618	28622	

HAWAIIAN ELECTRIC CO., INC. ADJUSTMENTS TO NOL FOR RATEMAKING

	Tax Return 2010	Tax Return 2011	Tax Return 2012	Tax Return 2013	Tax Return 2014
Nonutility Taxable (Income)/Loss	1,231,495	654,234	74,612	2,291,512	1,700,219
RHI	7,631	4,985	2,029	1,897	345
UBC	12,182	13,962	875		
Charitable Contributions	884,073			768,773	
CIS Project Costs	654,557	3,220,776	14,732,263	incl in non utility	<i>(</i>
DPAD - HELCO					
Executive Compensation	1,383,049	2,231,784	2,787,606	3,250,537	4,131,904
Interest - IRS Examination	(6,803,000)		228,382	55,366	74,921
Executive Life	693,692	792,616	124,923	587,748	489,073
Rewards Program	1,605,981	1,288,679	1,059,775	1,385,141	1,065,539
State Tax Adjustment	95,136	(453,161)	(716,196)	(363,761)	(346,550)
Total adjustments	(235,204)	7,753,875	18,294,269	7,977,213	7,115,451

NOTE: The adjustments to the tax NOL carryforward removes those tax deductions related to expenses that have not been previously approved by the Commission. These tax deductions are related to costs excluded from the revenue requirement calculation for ratemaking purposes. The starting point on page 1 is the NOL used for financial statement purposes, including executive benefits, bonuses, other nonutility deductions and the tax deductions related to write downs. Consequently, the adjustments represent the tax deductions included in the NOL or taxable income for the listed years.

Note that some ADIT items that are excluded from rate base (vacation accrual, reserves, bad debts) are not adjustments to the NOL carryforward calculation because the related expenses are ultimately recovered in revenue requirement, albeit on a cash basis. For tax purposes, these items are deducted on a cash basis, thus no adjustment is required.

HAWAII ELECTRIC LIGHT CO., INC. ADJUSTMENTS TO NOL FOR RATEMAKING

	Tax Return 2010	Tax Return 2011	Tax Return 2012	Tax Return 2013	Tax Return 2014	Tax Return 2015	Accrual 2016
Nonutility Taxable (Income)/Loss	67,761	59,037	(100,544)	1,229,284	1,144,700	462,614	286,240
Charitable Contributions CIS Project Costs	67,399 (29,738)	38,376 14,820	24,475 3,499,109	19,171 incl in non utility		24,500	24,500
Executive Compensation Electric Discount	16,893 147,573	145,682 2,232	158,376	190,057	256,233	276,991	249,652
HMSA Premium Adjustment Interest - IRS Examination	147,154 (1,817,000)	132,400	22,245 (121,351)	7,415 (180)	- 8,099		
Executive Life Keahole Project Costs	15,364 760,980	760.982	762.272	incl in non utility	,		
Rewards Program	228,298	46,670	45,905	80,071 ´	31,259	40,826	123,929
State Tax Adjustment	27,854	(68,641)	(133,152)	(17,837)	(19,254)	(20,590)	(23,945)
Total adjustments	(367,462)	1,131,558	4,157,335	1,507,981	1,445,537	784,341	660,376

NOTE: The adjustments to the tax NOL carryforward removes those tax deductions related to expenses that have not been previously approved by the Commission. These tax deductions are related to costs excluded from the revenue requirement calculation for ratemaking purposes. The starting point on page 1 is the NOL used for financial statement purposes, including executive benefits, bonuses, other nonutility deductions and the tax deductions related to write downs. Consequently, the adjustments represent the tax deductions included in the NOL or taxable income for the listed years.

Note that some ADIT items that are excluded from rate base (vacation accrual, reserves, bad debts) are not adjustments to the NOL carryforward calculation because the related expenses are ultimately recovered in revenue requirement, albeit on a cash basis. For tax purposes, these items are deducted on a cash basis, thus no adjustment is required.

MAUI ELECTRIC CO., LTD. ADJUSTMENTS TO NOL FOR RATEMAKING

	Tax Return 2010	Tax Return 2011	Tax Return 2012	Tax Return 2013	Tax Return 2014	Tax Return 2015	Accrual 2016
Nonutility Taxable (Income)/Loss	(926,853)	171,847	9,708	424,040	1,351,784	347,757	(34,975)
Charitable Contributions	41,189		-	•	•	110,368	
CIS Project Costs	(84,209)	169,241	3,142,682	included in non	utility		
Executive Compensation	48,625	235,724	159,377	140,226	167,981	169,167	169,496
Interest - IRS Examination	(993,000)		(14,313)	(551)	4,638	171	
IRP/DSM costs	•	85,857	78,629	891,975	31,560		
Executive Life		172,136		•			
Rewards Plan	212,842	156,992	201,372	224,223	168,922	31,274	106,923
State Tax Adjustment	46,590	(49,320)	(91,799)	3,930	(24,122)	(12,067)	(16,627)
Total adjustments	(1,654,816)	942,477	3,485,656	1,683,843	1,700,763	646,670	224,817
	Note (3)	Note (3)	Note (3)				

NOTES:

- (1) The adjustments to the tax NOL carryforward removes those tax deductions related to expenses that have not been previously approved by the Commission. These tax deductions are related to costs excluded from the revenue requirement calculation for ratemaking purposes. The starting point on page 1 is the NOL used for financial statement purposes, including executive benefits, bonuses, other nonutility deductions and the tax deductions related to write downs. Consequently, the adjustments represent the tax deductions included in the NOL or taxable income for the listed years.
- (2) Note that some ADIT items that are excluded from rate base (vacation accrual, reserves, bad debts) are not adjustments to the NOL carryforward calculation because the related expenses are ultimately recovered in revenue requirement, albeit on a cash basis. For tax purposes, these items are deducted on a cash basis, thus no adjustment is required.
- (3) Total adjustments for Tax Return years 2010, 2011 and 2012 differ from the 2014 Annual Decoupling filing due primarily to executive compensation adjustments. The adjustments relate to additional executive compensation that should have been included as an adjustment for these years. This has no impact on revenue requirements since the deferred tax asset related to the NOL is excluded for decoupling purposes.

Hawaiian Electric Company, Inc. 2016 Major Projects Excess Cost

Ξ	Ξ		(3) Gross Plant	(1) Gross Plant		Docket No			Ξ	[3] 2015 Cost in	[1] 2016 Cost în	[4] Prior Years	[3] 2016 Depr		To Schedule 01
Grandparent 8	Prolect	Date In Service	Adds Thru 12/31/15	Adds Thru 12/31/16	Plant	2010-0053 Depr Rate	2016 Depr	2017 Depr	Gross PUC Approved		Excess of Docket	Depr Related to Excess	Related to Excess	2017 Depr Related to Excess	Cumulative Depr Related to Excess
			(4)	(8)		ij	· [D] • (V) • [G]	(E] = (0) - (C)	(F)	(0)	(H) = (B) - (F)	(1)	(g) . (v) / (g) » (r)	(3) . (0) / (4) • (3)	(1) • (1) • (1)
Y00138	Kahuku Wind Power	2010/13	2,132,812	2,132,812	397	0.06670 [2]	1338,940 [2]	338,940 [2]	2,125,651	7,161	7,161	965'9	478 [2]	478 [2]	5,073
P0001399	W8 Main Transformer Replace	2011/08	2,600,439	2,600,439	315	0.02430	63,191	63,191	2,357,425	243,014	243,014	25,439	\$06'5	5,905	31,344
P7650000	W8 Bolker Controls Upgrade	2011/08	6,310,672	6,310,672	313	0.02030	128,107	128,107	5,236,138	1,074,534	1,074,534	84,126	21,813	21,813	105,939
P7590000	W7 Controls Upgrade	10/1102	5,445,577	5,445,577	312	0.02030	110,545	110,545	5,021,440	424,137	424,137	19,234	8,610	8,610	27,844
Y00038	Kakaato Makai-iwilei 25kV DL	2013/07	7,163,447 480,352 7,643,799	7,163,447 480,352 7,643,799	367 368	0.04930	356,740 24,978 381,718	356,740 24,978 381,718	3,399,547 227,960 3,627,507	3,763,900 252,392 4,016,292	3,763,900 252,392 4,016,292	303,268 24,106 327,374	187,442 13,124 200,567	197,442 13,124 200,567	490,710 37,230 527,941
YD0038	Kakaato Matai Kewalo 25kV DL	2014/04	5,423,740	5,423,851	367	0.04980	270,102	270,108	4,013,624	1,410,116	1,410,227	47,072	70,224	70,229	117,296
Y00038	Kakaako Makai DOT Queen-Cook	2014/04	93,649 67,769 26,632 1,943,810 248,556 2,380,416	93,649 67,769 3,272,205 1,588,979 248,556 5,271,158 [54]	364 365 366 367 368	0.03390 0.04190 0.02190 0.04980 0.05200	3,175 2,840 583 96,802 12,925 116,324	3,175 2,840 71,661 79,131 12,925 169,732	70,978 51,363 2,480,068 1,204,318 188,385 3,995,113 [88]	47,616 34,457 13,541 988,333 126,379	22,671 16,406 792,137 384,661 60,171 1,276,045	1,614 1,444 297 28,362 6,572	1,614 1,444 297 49,219 6,572 59,145	769 687 17,348 19,156 3,129 41,089	3,228 2,888 593 77,581 13,143
P0000900	BPT Tank 133 Improvements	2014/12	7,188,095	7,188,095	312	0.02030	145,918	145,918	6,995,582	192,513	192,513		3,908	3,908	3,908

[1] Source:HECO-WP-D2-001

[2] 2016 & 2017 Depr were estimated using proportion of Net Plant Adds Thru 12/31/13 to Net Plant Adds Thru 12/31/13 to picket to 2010 Depr. Related to Excess calculated using (C) Docket No 2010-0053 Depr Rate * (G) 2015 Cost in Excess of Docket.

[3] Source: Transmittal No. 16-01 (Decoupling) - Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-E-001, filed on March 31, 2016.

[4] Source: Transmitral No. 16-01 (Decoupling) - RDA Rate Adjustment (Filed March 31, 2016), HECO-WP-E-001, sum of "Pror Years Oepr Related to Excess" and "2015 Depr Related to Excess"

| SA| - Kalaato Makai DOT Queen-Cook Gross Plant Adds Thru 12/31/16 reflects actual CIAC received to date:

2,481,513 Net Plant adds thru 12/31/2016 HECO-WP-02-001

2,481,502 CIAC received thru 12/31/2016 - HECO-WP-02-001

5,271,156 Gross Plant Adds Thru 12/31/16 - HECO-WP-02-001

|58| - Kalaato Makal DOT Queen-Gook Gross PUC Approved represents Net PUC Allowed per the docket plus CIAC received to date:
1,170,099 In a monumer paperoved by Puc - X60 - HisCO-WP-02-001
2,325,033 GAC received thru 1,247,2016 - HISCO-WP-02-001
5 3,995,113 2016 Gross PUC Approved amount - HISCO-WP-02-001

Hawaiian Electric Company
Calculation of Composite Effective Income Tax Rates
Federal and State

Composite Federal and State Effective Income Tax Rate

Federal Effective Income Tax Rate
State Effective Income Tax Rate

32.8947368% MECO-RWP-1501, p. 1 (Docket No. 2011-0092) 6.0150376% MECO-RWP-1501, p. 1 (Docket No. 2011-0092)

38.9097744%

Calculation of Effective Rates

Assumptions: ST = State Income Tax Expense

FT = Federal Income Tax Expense

Pre-Tax Income = \$1.00

State Statutory Income Tax Rate = 6.4% Federal Statutory Income Tax Rate = 35%

Calculation of State Effective Income Tax Rate

State Income Tax Expense = Statutory Rate x (Pre-Tax Income - State Income Tax Expense)

 $ST = .064 \times (1-ST)$

ST = .064 - .064(ST)

1.064(ST) = .064

ST = .060150376 or 6.0150376% of Pre-Tax Income

Calculation of Federal Effective Income Tax Rate

Federal Income Tax Expense = Statutory Rate x (Pre-Tax Income - State Income Tax Expense)

 $FT = .35 \times (1-ST)$

 $FT = .35 \times (1-.060150376)$

FT = .35 - .0210526316

FT = .328947368 or 32.8947368% of Pre-Tax Income

HAWAIIAN ELECTRIC COMPANY, INC. TAX REPAIRS ADJUSTMENT 2017

		HECO-WP- F1-002	Α	B HECO-WP- F1-001, pg 2	C = A x B	D = A - C
	LIFE	5 YR AVERAGE	Plant Adds	Repairs Allocation	Repairs Deduction	Depreciable Basis
Computers/PV	5	7,067				
Communication	20	4,073				
Off/Furn/Tools	7	5,979				
Distribution	20	117,895	117,895,000	24.46%	28,837,156	89,057,844
Land	-	1,435				
Non-Steam Production	15	2,404	2,404,000	0.00%	0	2,404,000
Steam Production	20	29,775	29,775,000	30.30%	9,021,391	20,753,609
Structural	39	4,035				
Transmission	20	24,492	24,492,000	4.72%	1,155,087	23,336,913
Transmission	15	39,786	39,786,000	4.72%	1,876,380	37,909,620
Vehicles	-	7,455				
TOTAL		244,396	214,352,000	_	40,890,014	173,461,986
			•	-	To Sch F1	

NOTE 1> This schedule computes the estimated amount of deductible tax repairs related to the baseline plant additions for the RAM year. The deductible tax repairs amounts are carried forward to Schedule F1 and serve to reduce the depreciable tax basis for the baseline plant additions. The repairs percentages (Column B) are calculated on HECO-WP-F1-001, page 2.

NOTE 2> The numbers (excluding %s) are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. REPAIRS DEDUCTION

		Distribution	Non Steam	Steam	Transmission
Repairs %:					
Total book t	pasis repairs				
2012		28,124,175	-	16,538,376	2,354,859
2013		26,024,478		12,206,812	3,034,166
2014		40,010,784		8,698,003	1,620,540
2015		28,855,969		8,823,262	3,152,508
· 2016		29,598,324		4,347,263	5,544,086
		152,613,730	0	50,613,716	15,706,159
Total book l	pasis adds				
2012	HECO-WP-F1-002	101,864,000	773,000	53,661,000	65,710,000
2013	HECO-WP-F1-002	114,622,000	101,000	32,635,000	81,220,000
2014	HECO-WP-F1-002	139,366,000	12,311,000	30,119,000	57,957,000
2015	HECO-WP-F1-002	150,513,000	5.613.000	25,823,000	48,871,000
2016	HECO-WP-F1-002	117,566,000	268,000	24,812,000	79,269,000
		623,931,000	19,066,000	167,050,000	333,027,000
AVERAGE	%	24.460033%	0.000000%	30,298543%	4.716182%

NOTE 1> With the assistance of Price Waterhouse Coopers, the repairs deduction analysis was performed in 2010, 2012, 2015 and 2016 in connection with changing HECO's method of identifying deductible repairs for tax accounting purposes. The repairs percentage for each functional group represents the five year weighted average of the identified repairs costs.

NOTE 2> The numbers (excluding %s) are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. BASELINE PLANT ADDS

		2012 ACTUAL			2013 ACTUAL			2014 ACTUAL		
	LIFE	PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL		PROGRAMS	TOTAL
•										
Computers/PV	5	1,426	5,120	6,546	1,559	6,350	7,909		6,681	6,681
Communication	20 7	7,175	806	7,981	4,708	1,661	6,369 7,350	3,516	1,824	5,340
Off/Furn/Tools Distribution	20	4,438 43,704	2,589 58,160	7,027 101,864	1,751 25,611	5,599 89,011	114,622	4,590 33,784	3,652 105,582	8,242 139,366
Land	-	43,704	36,100 77	77	6,320	82	6,402	1,274	455	1,729
Non-Steam Production	15	773		773	101		101	12,311	-	12,311
Steam Production	20	47,762	5,899	53,661	29,864	2,771	32,635	27,547	2,572	30,119
Structural	39	3,265	182	3,447	6,479	235	6,714	2,278	621	2,899
Transmission	20	12,815	11,767	24,582	12,962	11,484	24,446	1,491	11,804	13,295
Transmission > 69kv	15	22,880	18,248	41,128	43,386	13,388	56,774	36,204	8,458	44,662
		35,695	30,015	65,710	56,348	24,872	81,220	37,695	20,262	57,957
Vehicles	•		8,892	8,892	Ē	9,498	9,498		4,682	4,682
TOTAL		144,238	111,740	255,978	132,741	140,079	272,820	122,995	146,331	269,326
		2015 ACTUAL		2	2016 ACTUAL			LESS MAJOR PROJECTS		
	LIFE	PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL
Computers/PV	5	2,718	6,262	8,980	46	5,173	5,219			
Communication	20	1,054	4,129	5,183	2,954	2,916	5,870	(10,379)		(10,379)
Off/Furn/Tools	7	3,406	909	4,315	171	2,793	2,964		•	-
Distribution	20	16,208	134,305	150,513	17,667	99,899	117,566	(34,452)		(34,452)
Land	-	1,202	31	1,233		11	11	(2,276)		(2,276)
Non-Steam Production	15	5,613		5,613	268		268	(7,045)		(7,045)
Steam Production	20	22,516		25,823	21,860	2,952	24,812	(18,173)		(18,173)
Structural	39	4,832	636	5,468	886	761	1,647			-
Transmission	20	10,539	10,922	21,461	30,240	8,436	38,676			
Transmission > 69kv	15	26,004	1,406	27,410	40,530	63	40,593	(11,641)		(11,641)
		36,543	12,328	48,871	70,770	8,499	79,269	(11,641)	•	(11,641)
Vehicles	•		10,540	10,540		3,665	3,665			•
TOTAL		94,092	172,447	266,539	114,622	126,669	241,291	(83,966)	<u>.</u>	(83,966)
		TOTAL (2012 - 2016)		AVER	AVERAGE (2012 - 2016)			AVERAGE (2012 - 2016)		
	LIFE	PROJECTS PROGRAMS TOTAL		PROJECTS PROGRAMS TOTAL			PROJECTS PROGRAMS TOTAL			
						To Sch F1 —			To Sch F1 —	\longrightarrow
Computers/PV	5	5,749		35,335	1,150	5,917	7,067	0.47%	2.42%	
Communication	20	9,028		20,364	1,806	2,267	4,073	0.74%	0.93%	1.67%
Off/Furn/Tools	7	14,356		29,898	2,871	3,108	5,979	1.17%	1.27%	2.45%
Distribution	20	102,522		589,479	20,504	97,391	117,895	8.39%	39.85%	48.24%
Land	-	6,520		7,176	1,304	131	1,435	0.53%	0.05%	0.59%
Non-Steam Production	15	12,021		12,021	2,404	3 500	2,404	0.98%	0.00% 1.43%	0.98% 12.18%
Steam Production Structural	20 39	131,376 17,740		148,877 20,175	26,275 3,548	3,500 487	29,775 4,035	10.75% 1.45%	0.20%	1.65%
Structural	33	17,740	2,435	20,173	3,340	407	4,033	1.4370	0.20%	1.03%
Transmission	20	68,047	54,413	122,460	13,609	10,883	24,492	5.57%	4.45%	10.02%
Transmission > 69kv	15			198,926	31,473	8,313	39,786	12.88%	3.40%	16.28%
		225,410	95,976	321,386	45,082	19,196	64,278	18.45%	7.85%	26.30%
Vehicles	•	•	37,277	37,277	-	7,455	7,455	0.00%	3.05%	3.05%
TOTAL		524,722	697,266	1,221,988	104,944	139,452	244,396	42.94%	57.06%	100.00%
						10 HEC	O-WP-F1-001			

Hawaiian Electric Company, Inc. 2017 CIAC Additions - Major Projects Support

		Project to Date					
		Functional	Project > Plant	Recorded	2017 CIAC	Future	
Grandparen	t Project	Category	Addition Date	12/31/16	Additions	Years	
Y00038	P0001579: Kakaako Makai DOT Queen-Cook	Distribution	201404	(2,825,023)	(900,000) N1	-	N1

See Schedule G2 - Major Capital Project CIAC Additions (900,000)

To Sch G2

N1 Source: UI Planner Budget Files - Forecast as of February 15, 2017.

HAWAIIAN ELECTRIC COMPANY, INC. AVERAGE RATE BASE AND RATE OF RETURN (\$ Thousands)

(o mo	ugarius,	Month E	ind
<u>RATE BASE</u>	REFERÊNCE	Dec-16	<u>Dec-15</u>
TOTAL UTILITY PLANT	Note 2	3,082,238	2,901,148
Adjustments: Construction Work in Progress		(180,194)	(147,979)
Retirement Work in Progress		(12,590)	(40,482)
Asset Retirement Obligation	1	(25,108)	(26,376)
Regulatory Liability for Cost of Removal	↓	(275,705)	(247,494)
Other	GL#25365000	(5,780)	(6,960)
DEPRECIATED COST OF UTILITY PLANT IN SERVICE	Note 1	2,582,861	2,431,856
REGULATORY ASSETS - SFAS 109	Note 2	70,146	68,300
REG ASSET- CONTRIB vs. NPPC	GL#18676030	19,411	19,411
REGULATORY ASSET - PENSION NPPC vs. Rates	GL#18676040	97,614	81,709
REGULATORY ASSET - OPEB NPBC vs. Rates	GL#18677040	1,204	380
REGULATORY ASSET - RO PIPELINE	Note 2	4,958	5,075
MATERIALS & SUPPLIES (Excluding Stores Expense)	Note 2	29,446	29,284
MATERIALS & SUPPLIES ADJUSTMENT	HECO-WP-H-006	(1,116)	(1,214)
FUEL STOCK	Note 2	47,238	49,456
UNAMORTIZED DEFERRED OMS COSTS	GL#186070	1,217	1,688
UNAMORTIZED DEFERRED HR SUITE-PHASE 1	GL#186060	1,663	2,020
UNAMORTIZED DEFERRED HR SUITE-PHASE 2	GL#186061	640	768
UNAMORTIZED DEFERRED BUDGET SYSTEM PROJECT	GL#186077	1,030	1,176
UNAMORTIZED DEFERRED IVR COSTS	GL#18670400	1,116	1,233
UNAMORTIZED DEFERRED CIS COSTS	HECO-WP-D1-001B	10,266	11,486
	GL#18670124, #18670125,		
UNAMORTIZED EOTP REGULATORY ASSET	#18670126	444	798
UNAMORTIZED CIP REGULATORY ASSET	HECO-WP-D1-001A	2,306	3,261
WORKING CASH:	HECO-WP-H-007	7,421	12,830
DEDUCTIONS:			
Unamortized Contributions in Aid of Construction	Schedule G	347,827	319,728
Customer Advances for Construction	Note 2	3,581	2,776
Deferred Income Taxes	Schedule D4	525,719	489,988
Unamortized Investment Tax Cr - 1962 Revenue Act & STC	GL#255200, #255030	57,103	53,293
Rental Premiums - Kamoku	GL#25313000	0	0
Customer Deposits	GL#23501000	12,101	13,117
Unamortized Gain on Sales	GL#254001	248	218
Regulatory Liability Tracker True-up	GL#25400004 GL#25400002	(5) 4,818	1,111
Regulatory Liability OPEB True-up TOTAL DEDUCTIONS	GL#25400002	951 392	4,243 884,474
MONTH ENDED RATE BASE		1,926,473	1,835,043
SIMPLE AVERAGE RATE BASE	. [1,880,758	

Footnotes:

- Includes Property Held for Future Use balance of \$0 for 2016 and 2015.
 See Hawaiian Electric Company Inc. Monthly Financial Report December 2016, page 8, 9 & 10, filed February 24, 2017.
 Amounts may not add up due to rounding.

Earnings Sharing Mechanism
Interest on Customer Deposit Correction

Background

Under Rule No. 6, the Company may require customers to provide a deposit intended to guarantee payment of bills for electric service. Cash deposits accrue simple annual interest at a rate of 6%. The interest is a company expense.

In July 2016, the Companies found that the interest expense being accrued for financial statement purposes had erroneously been overstated since May 2012. The overstatement resulted from incorrect programing of a report developed when the Customer Information System was implemented. The report miscalculated accrued interest on released deposits and for deposits that had been transferred to the new Customer Information System.

The following table summarizes the interest expense overstatement by year and by company:

Company	2012	2013	2014	2015	2016	Total
Hawaiian Electric	52,794	172,284	328,193	531,054	304,398	1,388,723
Hawaii Electric Light	15,744	42,584	73,925	113,423	56,596	302,272
Maui Electric	20,365	51,289	89,131	117,396	52,652	330,833
Total	88,904	266,158	491,249	761.873	413,645	2,021,828

Impact of Error

No customers were directly impacted by the error. Internal financial controls for this area have been reviewed and strengthened.

The error resulted in an immaterial overstatement of interest expense for financial reporting purposes. The misstatement was deemed immaterial and no prior period adjustment was warranted, as the adjustment was not material, individually or in the aggregate, to previously issued financial statements. The correction was reflected as a reduction in interest expense in 2016.

The immaterial overstatement of interest expense in the period 2012-2015 resulted in immaterial understatements of the Earnings Sharing Mechanism ("ESM"). Adjusting for the interest expense did not impact the ESM in the years which the ESM was not triggered; however, in the years that the ESM was previously triggered [2012 for Hawaiian Electric and 2013 and 2014 for Maui Electric], the amount of the ESM would have been slightly higher. The following summarizes the return on equity for ESM purposes with the adjustment to interest expense reflected in the respective year and company:

Company	ROE Trigger	2012	2013	2014	2015
Hawaiian Electric	10.0	10.70	8.96	9.87	9.23
Hawaii Electric Light	10.0	7.79	7.47	6.67	7.51
Maui Electric	9.0	6.70	19:36	9.50	8.79

The adjustments to the ESM are summarized below:

Company (\$000)	2012	2013	2014	2015	Total
Hawaiian Electric	14	-	-	-	14
Hawaii Electric Light	-	-	-	-	<u>-</u>
Maui Electric	-	14	24	-	38

The amount on Schedule H1, line 31 reflects the Additional Earnings Sharing Revenue Credits that will be offset against the Total RBA Revenue Adjustment on Schedule A. The RBA language does not specifically address corrections to a prior period where the ESM was triggered. However, the Company is applying interest using the-short term debt rate of 1.75%, on a compounded basis.

HAWAIIAN ELECTRIC COMPANY, INC. Ratemaking Adjustments For Incentive Compensation And Other Non-Recoverable Expenses 2016

Account/Activity No.	Description	YTD	Net of Tax	Rounded (000s)		
HR002244	LTIP expense	1,338,322				
HR002243	EICP expense	1,289,888				
HR902246	Manager award plan	359,865				
P8M723PHENENPZZZZZZ900	LTIP share expense (credit)	(16,400)				
Non-Executive Incentive Worksheet	Non-executive incentive programs	1,140,600				
Other Incentive Awards Worksheet	Other incentive awards	615,567		Incentive		
Provided by HEI	HEI charges for incentive compensation	782,038	3,385,998	3,366	=>	Line 2A
P#R0001202	Executive life insurance(COLI) expense (credit) not tax deduct	(430,710)				
93022 Schedule	Company memberships not tax deduct	39,084				
WO#AD000945/P#R0005071	(portion of EEI dues related to EEI's Government					
	Affairs group, Communication, Marketing, Customer,					
	and Employee Relations group)					
WO#FI002227	Costs associated with restatement of financial statements	2,842				
Provided by HEI	HEI charges for non-incentive comp (sataries/benefits) - executives (labor)	590,837				
Provided by HEI	HEI charges for outside services (plan admin, legal fees, audit fees) - executives (non-labor)	88,206				
HR002193/HR002057	Service awards program	47,594				
P#R0001093	HEIRS - Administration	37,246				
P#R0029195	Administrator - Exec Pension (Excess Plan)	22,229				
P#R0001091	Directors	(13,462)				
P#R0001087	Excess	313,087				
P#R0001088	SERP	133,021				
P#R0010240	OPEB (Executive life portion only)	402,147				
408040	Payroll taxes related to incentive compensation	168,480				
R0024482	Community service adm - AUW (labor)	220,998		Other	_	
R0024482	Community service adm - AUW (non-tabor)	139,501	922,256	922	₩	Line 2B
	Total adjustment to operating income	7,268,976				
	Tax on adjustments	(2,980,724)				
	Net adjustment to operating income	4,288,254	4,288,254	4,288		
	Labor	5,722,548				
	Non-tabor	1,546,430				
	Total adjustment to operating income	7,268,978				

HAWAIIAN ELECTRIC COMPANY, INC. Income Tax On Items To Be Replaced By Synchronized Interest 2016

	Source	YTD	Rounded (000s)	
Total Interest Charges	PUC report	46,328,697		
Less: Int on Customer Deposits	Account 43105000	221,485		
AFUDC-Debt	NARUC 420030	(2,484,703)		
Amort of Inv Inc Differential	NARUC 403030	184,971	185	Line 2C
Equity in net income of trust	NARUC 421070	(100,516)		
	Tax rate	44,149,934 38.9097744%		
		17,178,640	(17,179)	Line 2D

HAWAIIAN ELECTRIC COMPANY, INC. Ratemaking Capitalization 2016

	Simple Average Balance*	Ratios	Cost <u>Rate</u>	Weighted Cost of Debt
Short-Term Debt	43,499	2.01%	0.66%	0.01%
Long-Term Debt	856,436	39.65%	5.09%	2.02%
Hybrid Securities	28,541	1.32%	7.21%	0.10%
Preferred Stock	21,082	0.98%	5.38%	0.05%
Common Equity	1,210,614	56.04%	10.00% _	5.60%
	2,160,172	100.00%	_	7.78%
	NARUC/	YTD	Rounded	Cost
	GL Code	<u>Dec 2015</u>	(000s)	<u>Rate</u>
OL 17 D.11				
Short-Term Debt:	120	0.404.000		
Interest on Debt Assoc Co Less: Interest on QUIDS	430 43006000	2,191,839		
Int Exp-Commercial Paper	43100000	(2,050,516) 143,744		
Int Exp-SCF Loans	43108000	145,744		
Int Inc-Assoc Cos.	419300	0		
WR 1710-710300 003.		285,067	285	0.66%
Long-Term Debt:		200,007	200	0.0071
Amort of Debt Disc & Exp	428	1,725,362		
Less: Hybrid Sec Amort of Iss Exp	428QUID1-3 (see below)	(109,414)		
Interest on Long-Term Debt	427	41,821,436		
Amort Inv Inc Differential	403030	184,971		
	_	43,622,355	43,622	5.09%
Hybrid Securities:				
Interest on QUIDS	43006000	2,050,516		
Amort Exp-QUID1 Iss Exp	428QUID1	40,416		
Amort Exp-QUID2 Iss Exp	428QUID2	37,899		
Amort Exp-QUID3 Iss Exp	428QUID3	31,099		
Equity in Net Inc of Trust	421070	(100,516) 2,059,414	2,059	7.21%
		2,059,414	2,059	1.21%
Preferred Stock:				
Amort of Pfd Stk Iss Exp	42501000	55,086		
Preferred Stock dividends	437	1,079,907		
	_	1,134,993	1,135	5.38%
			•	

^{*} Short-Term Debt based on a 12 month average.

HAWAIIAN ELECTRIC COMPANY, INC. Earning Sharing Credits Recorded (net of tax) 2016 Amounts in (\$000s)

Earnings Sharing Credits Recorded	0
Revenue Taxes @ 8.885%	0
	0
Income Taxes @38.9097744%	0
Reduction to operating income	0

HAWAIIAN ELECTRIC COMPANY, INC. MATERIALS & SUPPLIES ADJUSTMENT (\$ Thousands)

Beg Balance at November 30, 2016 Additions Issues Adjustments Ending Balance at December 31, 2016	Note (1)	а	29,134 1,061 (961) 162 29,396
# of Days in December		b	31
Average Daily Additions to Inventory Purchase Payment Lag Days	Note (2)	c=a/b d	34.23 32.6
Estimated Unpaid Inventory at December 31, 2016	Note (3)	e=cxd	1,116 To HECO-WP-H-001

Footnotes:

- 1 Source: Hawaiian Electric Company Inc. Combined Inventory Report for December 2016.
- 2 See Hawaiian Electric Company Inc. bocket No. 2010-0080 Hawaiian Electric Company Inc.'s 2011 test year rate case, HECO-WP-2003, page 1 & 2.
- 3 Material & Inventory Adjustment represents materials & supplies financed by accounts payable and is calculated in compliance with the Commission's D&O 14412 dated December 11, 1995, in Docket No. 7766.

HAWAIIAN ELECTRIC COMPANY, INC. WORKING CASH 2016

Line No.	Description	Reference	2016		Net Collection Lag (Days)	Amount
	(a)	(b)		(c)	(d) Note (1)	(e)=(c)/365y(d)
1	Fuel Oil	Trial Balance: 820		305,359	18.8	15,728
2	Purchased Power	GL #555		431,009	(1.6)	(1,889)
3	Current Income Taxes					
		Dec. 2016 PUC Monthly				
4	Income Tax	Report, Page 2	4,251			
5	Income Tax related to Disallowed Items	HECO WP-H-002	2,981			
6	Reversal of Tax Related to Int Synch Replacement	Sch H-Line 2d	17,179			
7	Tax Eff of AFUDC Equity	GL #420100	(4,241)			
8	Tax Related to Int Synch	Sch H-line 13 - 13a	(15,587)			
9	Total	Sum of Line 4-8		4,583	(1.7)	(21)
10	Revenue Taxes					
11	Franchise	GL #408010	36,369			
12	PSC	GL #408020	87,799			
13	PUC Fee	GL #408030	7,460			
14	Total	Sum of Line 11-13		131,628	(52.5)	(18,933)
15	O&M Labor					
16	O&M labor	Acct. Dept. O&M report	130,637			
17	Fuel O&M labor	Acct. Dept. O&M report	(2,261)			
18	O&M Labor Excl Fuel Labor	Line 16 + 17	128,376			
19	Disallow O&M	HECO WP-H-002	(5,723)			
20	Total	Line 18 + 19		122,653	25.2	8,468
21	O&M Non-Labor					
22	O&M Expense	Trial Balance: G30	272,437			
		(see O&M Labor Excl Fuel	,			
23	O&M Labor Excl Fuel Labor	Labor above)	(128,376)			
24	Disallow O&M Non-Labor	HECO WP-H-002	(1,546)			
25	Bad Debt Expense	GL #904	(1,252)			
26	Pension Reg Asset/Liab Amort	HECO WP-H-007 pg. 2	389			
27	OPEB Reg Asset/Liab Amort	HECO WP-H-007 pg. 2	1,349			
28	Sys Develop Americation	HECO WP-H-007 pg. 2	(1,101)			
29	Total	Sum of Line 22-28	(1,101)	141,900	8.8	3,421
30	Payroll Taxes	GL #408050		9,669	21.1	559
31	Interest on Customer Deposits	GL #43105000		(221)	(145.7)	88
32	Working Cash	Sum of Line 1, 2, 9, 14, 20, 29, 30, 31			Te	7,421 HECO-WP-H-001

Footnotes:

See Docket No. 2010-0080, PUC Interim D&O, Exhibit B, page 2, filed July 22, 2011.

HAWAIIAN ELECTRIC COMPANY, INC. O&M Non-Labor 2016

B			
Pension	Requiatory	ASSEL	Amortization

	O&M %									
PAA128	PAA129	PAA151	PAA152	PAA153	PAA202		Portion	Rounded		
2008 <u>1/09-7/09</u>		8/09-12/09 <u>2010</u>		<u>1/11-7/11</u>	2008-2011	<u>Total</u>	<u>70.69%</u>	<u>000s</u>		
							Note 1			
(305,487)	822,714	(713)	(982,670)	145,233	(229,255)	(550,178)	(388,921)	(389)		

OPEB Regulatory Asset Amortization

	O&M %							
PAA130	PAA135	PAA154	PAA155	PAA156	PAA203		Portion	Rounded
<u>2008</u>	1/09-7/09	8/09-12/09	<u>2010</u>	<u>1/11-7/11</u>	2008-2011	<u>Total</u>	<u>70.69%</u>	<u>000s</u>
							Note 1	
(77,785)	(37,133)	(51,360)	(577,691)	(369,524)	(795,335)	(1,908,828)	(1,349,351)	(1,349)

System Development Amortization

	Standard Journal Entry No.										
PAA109	PAA133	PAA143	PAA163								
18607004	18606004	18606104	18607704		Rounded						
<u>OMS</u>	Phase 1	Phase 2	Replace	<u>Total</u>	<u>000s</u>						
471,037	356,462	127,940	145,469	1,100,909	1,101						

Footnote:

1 See Docket No. 2010-0080, Parties' Stipulated Settlement Letter, Exhibit 1, page 82, filed July 5, 2011.

Earnings Sharing Mechanism Cost of Capital

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Cost of capital methodology consistently used in Earnings Sharing Mechanism actual filings and reviewed by Office of Consumer Advocacy and reviewed and approved by the Public Utilities Commission have been based on the actual cost of capital

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In 2010, the PUC issued an order approving decoupling, which was implemented by Hawaiian Electric on March 1, 2011, by Hawaii Electric Light on April 9, 2012 and by Maui Electric on May 4, 2012. The Earnings Sharing Mechanism ("ESM") calculations became applicable for each of the respective companies, in the year following decoupling implementation. Therefore, the first ESM filings were in the 2012 Annual Filing for Hawaiian Electric and 2013 Annual Filings for Hawaii Electric Light and Maui Electric. ESM calculations in the Annual Filing are for the preceding calendar year.

All ESM calculations filed have incorporated the actual recorded cost of capital for ratemaking purposes. The treatment is thought to be based on discussions held in the 2011 timeframe; however the Companies are unable to locate any documentation of this approach.

Use of the actual cost of capital has resulted in capital cost savings being passed to customers via the ESM

Customers have paid lower rates as a result of lower interest rates which have been passed through the ESM. In most cases, the return on equity calculated using the last test year would have been lower than the return on equity which was filed based on actual financing rates and weights. If the rate case cost of capital had been used in the ESM calculation:

- The Hawaiian Electric 2012 ESM would have been \$1.8 million lower.
- Maui Electric would not have triggered the 2013 ESM (as opposed to the ESM of \$0.4 million).
- The Maui Electric 2014 ESM would have been \$0.2 million lower.

Commence - Both continue Bath of Both on for Francisco - Obside - Marke Vision

	Summary	- Ratemaking Rate (ot Return tor	Eamings Shanr	ig Mechanisi	<u>,</u>		
	HE	co	HEL	.co	MECO_			
i	Filed	Revised	Filed	Revised	Filed '	Revised	•	
Dec 2011	8.03%	7.71%	* 1	*	-			
Dec 2012	10.70%	10.21% (A)	7.79%	7.75%	6.69%	6.73%		
Dec 2013	8.95%	8.59%	7.46%	7.39%	9.35%	8.92%	(B)	
Dec 2014	9.85%	9.52%	6.65%	6.59%	9.47%	9.26%	,(C)	
Dec 2015	9.20%	8.89%	7.49%	7.22%	8.76%	8.77%	ļ	
1	ESM - filed	ESM - revised	Diff	: مانچونیس در د			 	
(A) - HE	2,586.19	814.27	1,771.92					
(B) - ME	366.71	‡ <u> </u>	366.71		-		1	
(C) - ME	520.522	285.937	234.59]	
Total	3,473.42	1,100.21	2,373.22		-			

Only the MECO 2012 and 2015 ROE calculations would be slightly higher using actual financing rates and weights. In both years, the higher ROE rates using the rate case cost of capital (6.73% in 2012 and 8.77% in 2015) are still lower than the 9.0% ROE allowed and still would not have triggered an ESM credit.

See attached back-up calculations.

Proposed clarification within the tariff

In researching, the basis for the cost of capital for the ESM calculations, the Companies found that the Commission decision in Final Decision and Order filed August 31, 2010 in Docket No. 2008-0274, the Order states:

"Capital ratios and costs rates will be retained as authorized in either the most recently issued rate case interim or final decision, and synchronized interest will be updated using methods employed in that last rate case for purposes of the earnings sharing mechanism."

The methodology was adopted as proposed in the Joint Final Statement of Position of the HECO Companies and Consumer Advocate filed May 11, 2009 in Docket No. 2008-0274. The identical statement can be found in the Joint Final Statement of Position p. 19.

As discussed above, however, the practice has been to use the actual cost of capital in calculating the ESM. This practice has resulted in greater savings to customers than using the cost of capital from the last rate case.

In order to clarify that actual cost of capital should be used in the ESM calculation, the Companies propose to add clarifying language in the tariff. Please see the redline version of the tariff in Attachment 1A which specifies that the cost of capital for the ESM calculation is based on actuals.

¹ Final Decision and Order and Dissenting Opinion of Leslie H. Kondo, Commissioner filed August 31, 2010 in Docket No. 2008-0274 Instituting a Proceeding to Investigate Implementing a Decoupling Mechanism for Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc. and Maui Electric Company, Limited p. 61.

		Rate Case	
	Actual	Cost of	
_	(Filed)	Capital	Reference
Dec 2011	8.03%	7.71%	page 4
Dec 2012	10.70%	10.21%	page 5
Dec 2013	8.95%	8.59%	page 6
Dec 2014	9.85%	9.52%	page 7
Dec 2015	9.20%	8.89%	page 8

ILLUSTRATION BASED ON RATE CASE COST OF CAPITAL

Reference HAWARIAN ELECTRIC COMPANY DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS All Amounts 5000 (Except %) page 8

					Determent		sele Deturs es l		
							asis Return on I		
Description	Reference			Opera	ting Income	_	Rate Base	Rate	of Return
(a)	(b)				(c)		(d)		(e)
Reported Operating Income before ratemaking adjustment	Dec 2011 Mo. PUC rp & HECO-WP-H-001	1, pg 2A	filed 2/21/12		92,731	\$	1,401,151		
Ratemaking Adjustments to Line 1;									
(1/500 MD II ees								
					222				
Income tax on items to be replaced by synchronized interest	HECO-WP-H-003				(13,681)				
Ratemaking Basis Amounts - Post Tax	Sum Lines 1 5 2			\$	82,460	\$	1,401,151		
Ratemaking Capitalization			Batances	I	Ratios		Cost Rate	Weig	hted Cost
Short-Term Debt (12 mg. Avg)		•	38 210		2 35%		1 75%		0.04%
									2.25%
the state of the s									0.13%
					1.28%				0,07%
Common Equity (Simple Avg)		\$	916,533		56.29%		10.00%		5.63%
Total Capitalization	HECO-WP-H-004	\$	1,628,163		100.00%				8.11%
Line 3 Rate Base Amount						\$	1,401,151		
Weighted Cost of Debt						_	2.42%		
Synchronized Interest Expense						s	33.848		
Income Tax Factor									
Synchronized Interest Expense, net of tax						3			
Post Tax Income Available for Preferred & Common (Line 3 - Line 13a)								5	61,782
Less: Preferred Income Requirement (Line & Waighted Cost times Rate Base)									978
Income Available for Common Stock								\$	60,805
Ratemaking Equity Investment (Line 9 Ratio times Rate Base)									788,742
Return on Equity for Decoupling Earnings Sharing									7.71%
Earnings Sharing Revenue Credits:		6	Basis Points						
Achieved ROE (basis points)			771						
Authorized Return (basis points)									
				Ne	rl 200 bo	Al	l over 300 ho	Rateo	ayer Total
Distribution of Excess ROE (basis points)			0		0		D		,
Ratepayer Share of Excess Earnings			25%		50%	_	90%		
Ratepsyer Earnings Share - Besis Points					•				
Revenue Credit per Basis Point (Note 2)								5	142
Earnings Sharing Revenue Credits (thousands)								<u> </u>	<u>.</u>
es; Composite Federal & State Income Tax Rete Income Tax Factor (11/1-tax rete) Ratemaking Equity Investment (line 19) Basis Point = 1/100 of a percent Earnings Required per Basis Point (thousands) Times: Income Tax Conversion Factor Pretax Income Required per Basis Point (thousands)				\$	788,742 0,01% 78,87				
	Ratemaking Adjustments to Line 1: Incentive Compensation Expenses (net of tax) Discretionary and Other Expenses Not Recoverable (net of tax) Amortization of investment income differential Income tax on items to be replaced by synchronized interest Ratemaking Basis Amounts - Post Tax Ratemaking Basis Amounts - Post Tax Ratemaking Capitalization Short-Term Debt (12 mo. Avg) Long-Term Debt (Simple Avg) Hybrid Secutities (Simple Avg) Preferred Stock (Simple Avg) Common Equity (Simple Avg) Total Capitalization Line 3 Rate Base Amount Weighted Cost of Debt Synchronized Interest Expense Income Tax Factor Synchronized Interest Expense Income Tax Factor Synchronized Interest Expense, net of tax Post Tax Income Available for Preferred & Common (Line 3 - Line 13a) Less: Preferred Income Requirement (Line 8 Weighted Cost times Rate Base) Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupling Earnings Sharing Earnings Sharing Revenue Credits: Achieved ROE (basis points) Authorized Return (basis points) ROE for sharing (basis points) ROE for sharing (basis points) Ratepayer Share of Excess Earnings Ratepayer Share of Excess Earnings Ratepayer Earnings Share - Bosis Points Revenue Credit per Basis Point (Note 2) Earnings Sharing Revenue Credits (thousands) as: Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1 - Lax rate) Ratemaking Equity In - Lax rate) Ratemaking Equity of per Basis Point (Inousands) Times; (noone Tax Conversion Factor Times; (noone Tax Conversion Factor Times; (noone Tax Conversion Factor Times; (noone Tax Conversion Factor	Reported Operating income before ratemaking adjustment Retemaking Adjustments to Line 1: Incentive Compensation Expenses (net of tax) Discretionary and Other Expenses Nor Recoverable (net of tax) Discretionary and Other Expenses Nor Recoverable (net of tax) Discretionary and Other Expenses Nor Recoverable (net of tax) Discretionary and Other Expenses Nor Recoverable (net of tax) Amonitation of investment income differential HECO-WP-H-003 Income tax on items to be replaced by synchronized interest HECO-WP-H-003 Retemaking Basis Amounts - Post Tax Sun times 1 & 2 Retemaking Control (Simple Avg) Preferred Stock (Simple Avg) Preferred Stock (Simple Avg) Total Captalization HECO-WP-H-004 Line 3 Rate Base Amount Weighted Cost of Debt Synchronized Interest Expense Income Tax Factor Synchronized Interest Expense, net of tax Post Tax Income Available for Preferred & Common (Line 3 - Line 13a) Less: Preferred income Requirement (Line 8 Weighted Cost times Rate Base) Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupling Eamings Sharing Earnings Sharing Revenue Credits: Achieved ROE (basis points) Sharing Grid per RAM Provision Distribution of Excess ROE (basis points) Reterens Credit per Basis Point (Note 2) Earnings Sharing Revenue Credits (thousands) Reterensing Require dept Rasis Point (Note 2) Earnings Required per Basis Point (Note 2) Earnings Required per Basis Point (Note 2) Earnings Required per Basis Point (Note and Sharing Required per Basis Point (Note 3) Reterensing Required per Basis Point ((Nousands)) Times: Income Tax Conversion Easts Reterensing Required per Basis Point ((Nousands)) Times: Income Tax Conversion Easts Reterensing Easts Reterensing Required per Basis Point ((Nousands)) Times: Income Tax Conversion Feator	Reported Operating income before ratemaking adjustment Retemaking Advistments to Line 1: Incentive Compensation Expenses (not of tax) Incentive Compensation Expenses (not of tax) Discretionary and Other Expenses Not Recoverable (not of tax) Amontization of investment income differential HECO-WP-H-002 HECO-WP-H-003 HECO-WP-H-003 HECO-WP-H-003 HECO-WP-H-003 Ratemaking Basis Amounts - Post Tax Sun Lines 1 & 2 Retemaking Capital (tripo) Short-Term Debt (12 mo. Avrg) Long-Term Debt (13 mo. Avrg) Long-Term Debt (15 mo. Avrg) Long-Term Debt (15 mo. Avrg) Common Equity (Simple Avrg) Total Capitalization HECO-WP-H-004 Total Capitalization HECO-WP-H-004 Total Capitalization HECO-WP-H-004 Total Capitalization HECO-WP-H-004 Line 3 Rate Base Amount Weighted Cost of Debt Synchronized Interest Expense Income Tax Factor Synchronized Interest Expense, net of tax Post Tax Income Available for Preferred & Common (Line 3 · Line 13a) Less: Preferred income Requirement (Line 8 Weighted Cost times Rate Base) Income Available for Decoupting Eamings Sharing Eamings Sharing Revenue Credis: Archieved RCE (basis points) Archieved RCE (basis points) Rote for sharing (basis points) Ratemaking Equity Investment (ince 9 Ratio times Rate Base) Return on Equity for Decoupting Eamings Sharing Eamings Sharing Revenue Credis (thousands) Ratemaking Equity Investment (Ince 2) Eamings Sharing Revenue Credis (thousands) Ratemaking Equity Investment (Ince 19) Basis Point - 11/10 of a percant Eamings Required per Basis Point (thousands) Times: Income Tax Conversion Factor Eamings Required per Basis Point (thousands) Times: Income Tax Conversion Factor	Reported Operating Income before ratemasking adjustment Retternshina Adhustmentis to Line 1: Retternshina Adhustmentis to Line 1: Retternshina Adhustmentis to Line 1: Retternshina Adhustmentis to Line 1: Discretionary and Other Expenses (ret of tax) Discretionary and Other Expenses for a flax) Discretionary and Other Expenses for Recoverable (ret of tax) Amortization of investment focome diffuseritat HECO-WP-H-803 HECO-WP-H-803 Retternshina Capatilation. Rettern	Reported Operating Income better ratemaking adjustment Dec 2011 Mo. PUC rpt, pg 24 filed 2721/12 & 1 (ECO-WP-H-001) Retemaking Adjustments to Libre 1: Incertifies Compensation Expenses (rist of tax) Discrizionary and Other Expenses (rist of tax) Discrizionary and Other Expenses (rist of tax) Discrizionary and Other Expenses (rist of tax) HECO-WP-H-002 HECO-WP-H-003 Ratemaking Basis Amounts - Post Tax San Lines 18.2 \$ sm L	Reported Operating Income before retermaking actijusment Dec 2011 Mo. PUC 17st, pg 2A Ged 22:1/12 8:12CO-WP-H-001 8:12CO-WP-H-001 1:12CO-WP-H-002 7:13 1:12CO-WP-H-002 7:13 1:12CO-WP-H-002 7:13 1:12CO-WP-H-002 7:13 1:12CO-WP-H-002 7:13 1:12CO-WP-H-003 7:12CO-WP-H-003 Reported Operating income before ratemaking adjustment	Reported Operating Income before internating adjustment Dec 2011 Mo, PUC (pt, pg 24 field 221)12 6 (2,731 5 1,461,151	Reported Operating Income before retemaking adjustment Dec 2011 Mo. PICC ptr, pg 2A sized 221/12 9.2,731 \$ 1,401,151 \$ 1,601,151 \$	

Reference HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS All Amounts \$000 (Except %) page 8

		page 8								
Line						_			lasis Return on E	
No	Description	_	Reference			_Op	erating Income		Rate Base	Rate of Return
	(a)		(b)				(c)		(d)	(e)
1	Reported Operating Income before ratemaking adjustment		Dec 2012 Mo. PUC п \$ HECO-WP-H-001	ot, pg 2A	filed 2/21/12	\$	119,924	\$	1,531,776	
2	Ratemaking Adjustments to Line 1:									
_										
28	Incentive Compensation Expenses (net of tax)		HECO-WP-H-002				3,782			
2b	Discretionary and Other Expenses Not Recoverable (net of tax)		HECO-WP-H-002				868			
2c	Amortization of investment Income differential		HECO-WP-H-003				194			
2d	Income tax on items to be replaced by synchronized interest		HECO-WP-H-003				(14,210)			
2e	CA Adjustment to Remove Accrued Earnings Sharing Refund ********	*****	· * * 2 *********	***		¥33.	1.156			
3	Ratemaking Basis Amounts - Post Tax	;	Sum Lines 1 & 2			\$	्राह्मात्र ार	\$	1,531,776	
4	Ratemaking Capitalization				Balances		Ratios		Cost Rate	Weighted Cost
5	Short-Term Debt (12 mo. Avg)			\$	38,210		2.35%		1.75%	0.04%
6	Long-Term Debt (Simple Avg)			S	624,620		38.36%		5.86%	2.25%
7	Hybrid Securities (Simple Avg)			\$	27,994		1,72%		7.36%	0.13%
8	Preferred Stock (Simple Avg)			\$	20,808		1.28%		5,46%	0.07%
9	Common Equity (Simple Avg)			\$	916,533		56.29%		10,00%	5.63%
9	Common Eduty (ample Avg)			*	910,333	_	50.29%		10,003	3.0376
10	Total Capitalization		HECO-WP-H-004	<u>s</u>	1,628,163	-	100.00%			8.11%
11	Line 3 Rate Base Amount							s	1,531,776	
12	Weighted Cost of Debt								2.42%	
13	Synchronized Interest Expense							\$	37,003	
13a	Income Tax Factor Synchronized Interest Expense, net of tax							\$	1,636929121 22,605	
14	Post Tax Income Available for Preferred & Common (Line 3 - Line 13a)									\$ 89,109
17	Less: Preferred Income Requirement (Line 8 Weighted Cost times Rate Base))								1,069
18	Income Available for Common Stock									\$ 2 88,040
19	Retemaking Equity Investment (Line 9 Ratio times Rate Base)									B62,274
20	Return on Equity for Decoupling Earnings Sharing									2 x 2 2 2 10.21S
21	Earnings Sharing Revenue Credits:			E	Basis Points					
22	Achieved ROE (basis points)			***	1,021	ŧ				
23	Authorized Return (basis points)			12.20	1,000	j				
24	ROE for sharing (basis points)			. a. a.	1,000					
	Total to strain g tous points)			100	41	•				
25	Sharing Grid per RAM Provision			1	First 100 bp		Next 200 bp	A	Il over 300 bp	Ratepayer Total
26	Distribution of Excess ROE (basis points)			-64	21	•	0		0	
27	Ratepayer Share of Excess Earnings				25%		50%	_	90%	
28	Ratepayer Earnings Share - Basis Points			1966.3	a isi interior ti s	3	-		-	155 ASS
29	Revenue Credit per Basis Point (Note 2)									S 155
30	Earnings Sharing Revenue Credds (thousands)									15 **** 814.27
Footnate	s:									
1	Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate)						38.91 % 1.636929121			
2	Ratemaking Equity Investment (line 19)					\$	862,274			
•	Basis Point = 1/100 of a percent					•	0.01%			
	Earnings Required per Basis Point (thousands)					3	88.23			
	Times; Income Tax Conversion Factor					•	1.636929121			
	Pretax Income Required per Basis Point (thousands)					\$	141			
	Times; Revenue Tax Conversion Factor					•	1.0975			
	Revenue Requirement per Basis Point (thousands)					3	155			
	-4					٠	.55			

Reference HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS All Amounts \$000 (Except %)

		age 8								
Line No.	Description	Referençe			-00	Ratemaki erating Income		asis Return on 6 Rate Base	Equity Rate of (Datues
110,	(a)	(b)			<u> </u>	(c)	_	(d)	(e)	
1	Reported Operating Income before ratemaking adjustment	Dec 2013 Mo, PUC rpt & HECO-WP-H-001	, pg 2A	filed 2/21/14	\$	117,175	\$	1,662,020		
2	Ratemaking Adjustments to Line 1:									
2a	Incentive Compensation Expenses (net of tax)	HECO-WP-H-002				3,527				
2b	Discretionary and Other Expenses Not Recoverable (net of tax)	HECO-WP-H-002				572				
2¢	Amortization of investment income differential	HECO-WP-H-003				185				
2d	Income tax on items to be replaced by synchronized Interest	HECO-WP-H-003				(15,726)				
26	Remove Accrued Earnings Sharing Refund	HECO-WP-H-005			_	283	_	4 000 000		
3	Ratemaking Basis Amounts - Post Tax	Sum Lines 1 & 2			\$	106,016	•	1,662,020		
4	Ratemaking Capitalization			Balances		Ratios		Cost Rate	Weighte	d Cost
5	Short-Term Debt (12 mo, Avg)		\$	38,210		2.35%		1.75%		0.04%
6	Long-Term Debt (Simple Avg)		S	624,620		38,36%		5,66%		2,25%
7	Hybrid Securities (Simple Avg)		\$	27,994		1.72%		7.36%		0.13%
8	Preferred Stock (Simple Avg)		\$	20,806		1.28%		5.46%		0,07%
9	Common Equity (Simple Avg)		5	916,533	_	56.29%		10.00%		5.63%
10	Total Capitalization	HECO-WP-H-004	\$	1,628,163	_	100.00%				8,11%
11	Line 3 Rate Base Amount						s	1,662,020		
12	Weighted Cost of Debt						_	2.42%		
13	Synchronized Interest Expense						s	40,150		
	Income Tax Factor						_	1.636929121		
13a	Synchronized Interest Expense, net of tax						\$	24,528		
14	Post Tax Income Available for Preferred & Common (Line 3 - Line 13a)								S 8	31,488
17	Less; Preferred Income Requirement (Line 8 Weighted Cost times Rate Base)									1,160
18	Income Available for Common Stock								S 8	30,328
19	Ratemaking Equity investment (Line 9 Ratio times Rate Base)								9	35,592
20	Return on Equity for Decoupling Earnings Sharing									8.59%
21	Earnings Sharing Revenue Credits;			Basis Points						
22	Achieved ROE (basis points)			859						
23	Authorized Return (basis points)			1,000						
24	ROE for sharing (basis points)				-					
25	Sharing Grid per RAM Provision			First 100 bp		Next 200 bp	AI	l over 300 bp	Ratepay	er Total
26	Distribution of Excess ROE (basis points)			0	,	0		0		
27	Ratepayer Share of Excess Earnings			25%	_	50%	_	90%		
28	Ratepayer Earnings Share - Basis Points			-		•		•		
29	Revenue Credit per Basis Point (Note 2)								<u> </u>	168
30	Earnings Sharing Revenue Credits (thousands)								<u>\$</u>	<u>. </u>
Footnote	PS:									
1	Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate)					38.91 % 1.636929121				
2	Ratemaking Equity Investment (line 19)				\$	935,592				
_	Basis Point = 1/100 of a percent				_	0.01%				
	Earnings Required per Basis Point (thousands)				\$	93,56	•			
	Times: Income Tax Conversion Factor					1.636929121	,			
	Pretax Income Required per Basis Point (thousands) Times: Revenue Tax Conversion Factor				\$	153				
	Revenue Requirement per Basis Point (thousands)				\$	1,0975				
					•	100				

ILLUSTRATION BASED ON RATE CASE COST OF CAPITAL

Reference HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS AB Amounts \$000 (Except %) page 8

	page 8									
Line								asis Return on E		
No.	Description (a)		erence (b)		Оре	rsting income (c)	_	Rate Base (d)		(e)
1	Reported Operating Income before ratemaking adjustment	Dec 2014 Mo, PUC rp & HECO-WP-H-001		led 2/26/15	\$	132,224	\$	1,756,212		1-7
2	Ratemaking Adjustments to Line 1:									
2a	Incentive Compensation Expenses (net of tax)	HECO-WP-H-002				4,552				
2b	Discretionary and Other Expenses Not Recoverable (net of tax)	HECO-WP-H-002				543				
2c	Amortization of investment income differential	HECO-WP-H-003				185				
20	Income tax on items to be replaced by synchronized interest	HECO-WP-H-003				(18,253)				
2e	Remove Accrued Earnings Sharing Refund	HECO-WP-H-805				0				
3	Ratemaking Basis Amounts - Post Tax	Sum Lines 1 & 2			\$	121,251	\$	1,756,212		
4	Retemaking Capitalization.			Balances		Ratios		Cost Rate	Weigh	ted Cost
5	Short-Term Debt (12 mo, Avg)		s	38,210		2.35%		1,75%		0.04%
6	Long-Term Debt (Simple Avg)		\$	824,620		38.36%		5.86%		2.25%
7	Hybrid Securities (Simple Avg)		\$	27,994		1.72%		7.36%		0.13%
8	Preferred Stock (Simple Avg)		\$	20,808		1.28%		5,46%		0,07%
9	Common Equity (Simple Avg)		<u>\$</u>	916,533		58.29%		10.00%		5.63%
10	Total Capitatization	HECO-WP-H-004	\$	1,828,163		100,00%				8,11%
11	Line 3 Rate Base Amount						\$	1,755,212		
12	Weighted Cost of Debt (Sum Lines 5-7)						_	2.42%		
13	Synchronized Interest Expense						s	42,425		
	Income Tax Factor (Note 1)							1.838929121		
13 a	Synchronized Interest Expense, net of tax						S	25,917		
14	Post Tax Income Available for Preferred & Common (Line 3 - Line 13a)								\$	95,334
17	Less: Preferred Income Requirement (Line 8 Weighted Cost times Rate Base)									1,225
18	Income Available for Common Stock								\$	94,109
19	Ratemaking Equity Investment (Line 9 Ratio times Rate Base)									988,615
20	Return on Equity for Decoupling Earnings Sharing (Line 18/Line 19)									9.52%
21	Earnings Sharing Revenue Credits:			Basis Points						
22	Achieved ROE (basis points)			952						
23 24	Authorized Return (basis points) (0&O 30505 in Okt No. 2010-0080, filed on June 29, 2012) ROE for sharing (basis points)			1,000	-					
25	Sharing Grid per RAM Provision			First 100 bp	١	Nex1 200 bp	A	ll over 300 bp	Ratepa	yer Total
26	Distribution of Excess ROE (basis points)			0		0		0		
27	Ratepayer Share of Excess Earnings		_	25%		50%		90%		
28	Ratepayer Earnings Share - Basis Points			-		•		-		
29	Revenue Credit per Basis Point (Note 2)								5	178
30	Earnings Sharing Revenue Credás (thousands)								5	<u> </u>
Footnote	3:									
1	Composide Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate)					38,91 % 1,636929121				
2	Ratemaking Equity Investment (line 19)				\$	988,615				
	Basis Point = 1/100 of a percent				-	0.01%	-			
	Earnings Required per Basis Point (thousands) Times: Income Tax Conversion Factor				\$	98.66 1.636929121				
	Pretax Income Required per Basis Point (thousands)				-	1.636929121				
	Times; Revenue Tax Conversion Factor				•	1,0975	i			
	Revenue Requirement per Basis Point (thousands)				\$	176	•			
	·									

ILLUSTRATION BASED ON RATE CASE COST OF CAPITAL

Reference HAWAIIAN ELECTRIC COMPANY, INC, DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS All Amounts \$000 (Except %)

	All Amounts 500 page 8	00 (Except%)						
Ļine					Ra	temakir	ng Basis Return on I	Equity
No.	Description	Refe	тепсе		Operating Inc		Rate Base	Rate of Return
	(a)	(b)		(c)		(d)	(e)
1	Reported Operating Income before ratemaking adjustment	Dec 2015 Me. PUC rpt, & HECO-WP-H-001	pg 2A filed 2/	23/16	\$ 13	1,287	\$ 1,814,077	
2	Ratemaking Adjustments to Line 1:							
28	Incentive Compensation Expenses (net of tax)	HECO-WP-H-002			:	3,367		
2b	Discretionary and Other Expenses Not Recoverable (net of tax)	HECO-WP-H-002				910		
2¢	Amortization of investment income differential	HECO-WP-H-003				185		
2d	Income tax on items to be replaced by synchronized interest	HECO-WP-H-003			(1)	3,672)		
2e	Remove Accrued Earnings Sharing Refund	HECO-WP-H-005				0		
3	Ratemaking Basis Amounts - Post Tax	Sum Lines 1 & 2			\$ 110	8,857	S 1,814,077	
4	Ratemaking Gaoitalization		Bata	inces	Ratios		Cost Rate	Weighted Cost
5	Short-Term Debt (12 mo. Avg)		s	38,210	:	2.35%	1.75%	0.04%
6	Long-Term Debt (Simple Avg)		\$	624,520		8.38%	5.88%	2.25%
7	Hybrid Securities (Simple Avg)		\$	27,994		1.72%	7.36%	0,13%
8	Preferred Stock (Simple Avg)		š	20,808		1.25%	5.48%	0.07%
9								
¥	Common Equity (Simple Avg)		<u>\$</u>	918,533		5.29%	10.00%	5.63%
10	Total Capitalization	HECO-WP-H-084	5	1,628,183	10	0.00%		8,11%
11	Line 3 Rate Base Amount						\$ 1,814,077	
12	Weighted Cost of Debt (Sum Lines 5-7)						2.42%	
13	Synchronized Interest Expense						\$ 43,823	
13a	Income Tax Factor (Note 1) Synchronized Interest Expense, net of tax						1.636929121 \$ 26,771	
14	Post Tax Income Available for Preferred & Common (Line 3 - Line 13a)							\$ 92,086
17	Less: Preferred Income Requirement (Line 8 Weighted Cost times Rate Base)							1,266
18	Income Available for Common Stock							\$ 90,820
19	Ratemaking Equity Investment (Line 9 Ratio times Rate Base)							1,021,189
20	Return on Equity for Decoupting Earnings Sharing (Line 18/Line 19)							8.89%
21	Earninos Sharino Revenue Credes;		Basis	Points				
22	Achieved ROE (basis points)			889				
23 24	Authorized Return (basis points) (D&O 30505 in Dkt No. 2010-0080, filed on June 29, 2012) ROE for sharing (basis points)			1,000				
25	Sharing Grid per RAM Provision		First	100 bp	Next 200	bp	All over 300 bp	Ratepayer Total
26	Distribution of Excess ROE (basis points)			0		0	0	
27	Ratepayer Share of Excess Earnings			25%		50%	90%	
28	Ratepayer Earnings Share - Basis Points			-		-	-	-
29	Revenue Credit per Basis Point (Note 2)							\$ 183
30	Earnings Sharing Revenue Credits (thousands)							<u> </u>
5								
Footnote 1	s: Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate)				3 1,6369	8.91 % 29121		
2	Ratemaking Equity Investment (line 19)					1,189		
	Basis Point = 1/100 of a percent					0.01%		
	Earnings Required per Basis Point (thousands) Times: Income Tax Conversion Factor				•	02.12		
					1.6359			
	Pretax Income Required per Basis Paint (thousands) Times: Revenue Tax Conversion Factor				•	167		
						1.0975		
	Revenue Requirement per Basis Point (thousands)				s	183		

HAWAIIAN ELECTRIC CO., INC. ADJUSTMENT TO RATE BASE FOR REG ASSET ON EOTP, CIP, CIS

	+ = addback - = deduct								DR / (CR)	DR / (CR)	DR / (CR)	
	2011 Add1 Debt	2012 Add1 Debt	2013 Add1 Debt	2014 Add1 Debt	2015 Add'l Debt	2016 Add'l Debt	2017 Add'l Debt	Cumulative Add1 Debt	32.8947% Def Fed	6.0150% Def State	Total Def Tex	
EOTP Interest (7/11 - 3/12) EOTP amort beg 4/12	450,028	140,706 (73,845)	(98,460)	(98,460)	(98,460)	(98,460)	(98,460)	590,734 (566,145)	194,320 (186,232)	35,533 (34,054)	229,853 (220,288)	
Total EOTP	450,028	68,881	(98,450)	(98,460)	(98,460)	(98,460)	(98,460)	24,589	8,088	1,479	9,567	'
CIP interest (7/11 - 5/13) CIP amort beg 6/13	415,582	728,147	320,463 (142,158)	(243,699)	(243,699)	(243,699)	(243,699)	1,482,192 (1,116,954)	480,984 (387,419)	87,951 (87,185)	568,935 (434,604)	
Total CIP	415,582	726,147	178,305	(243,699)	(243,699)	(243,699)	(243,699)	345,238	113,565	20,766	134,331	Sch K1 pg 1
CIS interest (5/12 - 5/13) CIS amort beg 6/13		545,064	152,938 (33.931)	(58, 167)	(58,167)	(58,167)	(58,167)	698,002 (266,599)	229,606 (87,697)	41,985 (16,038)	271,591 (103,733)	
Total CIS	•	545,064	119,007	(58,167)	(58,167)	(58,167)	(58,167)	431,403	141,909	25,949	167,658	Sch K1 pg.2
TOTAL	865,610	1,338,072	198,852	(400,326)	(400,326)	(400,325)	(400,326)	801,230	263,562	48,194	311,758	

The GL balance includes the AFUDC debt and the AFUDC additional debt.

The Rate base balance includes just the AFUDC debt,

The difference between GL and Rate base balance is the AFUDC additional debt.

HAWAIIAN ELECTRIC CO., INC. CIS PROJECT BASIS

				Basis				ADIT	
	-		Fed	State	Fed Book -	State Book -	Federal	State	Total
	_	Book	Tax	Tax	Tax Diff	Tax Diff	35.00000%	6.01504%	
CIS Book Basis	#186050	38,927,304	38,927,304	38,927,304					
	#18670201	2,474,707	2,474,707	2,474,707					
	#18670202	1,019,491	1,019,491	1,019,491					
	#18670203	65,648	65,648	65,648					
Total Book Basis		42,487,150	42,487,150	42,487,150					
AFUDC			(7,123,933)	(7,123,933)					
Writedown of CIS Costs		(29,000,000)	(29,000,000)	(29,000,000)					
	-	13,487,150	6,363,217	6,363,217					
Book / Tax Bases Differences			(2,400,052)	(2,400,052)					
Obok 7 Tax Dases Officionices			(2,400,002)	(2,400,002)					
Post Go Live carrying charge		282,815							
Amortization - 2012			(2,421,934)	(880,703)					
Amortization - 2013		(669,373)	(660,462)	(1,320,923)					
Balance as of 12/31/13		13,100,592	880,769	1,761,539	12,219,823	11,339,053	(4,038,221)	(682,048)	(4,720,269)
Amortization - 2014		(1,147,497)	(660,462)	(1,320,923)					
	_						-		
Balance as of 12/31/14		11,953,095	220,307	440,616	11,732,788	11,512,479	(3,864,108)	(692,480)	(4,556,588)
Amortization - 2015	Note 1	(1,147,497)	(220,307)	(440,616)					
	-								
Balance as of 12/31/15		10,805,598	-	-	10,805,598	10,805,598	(3,554,473)	(649,961)	(4,204,434)
Amortization - 2016		(1,147,497)							
Balance as of 12/31/16		9,658,101	-	-	9,658,101	9,658,101	(3,177,007)	(580,938)	(3,757,945)
Amortization - 2017		(1,147,497)	-	-					
Balance as of 12/31/17		8,510,604	-	-	8,510,604	8,510,604	(2,799,541)	(511,916)	(3,311,457)

Note 1 > For tax purposes, CIS costs are amortized over 36 months and are fully amortized in 2015.

VERIFICATION

STATE OF HAWAI'I)	
)	SS.
CITY AND COUNTY OF HONOLULU)	

Joseph P. Viola, being first duly sworn, deposes and says: That he is Vice President, Regulatory Affairs, of Hawaiian Electric Company, Inc., Applicant in the above proceeding; that he makes this verification for and on behalf of Hawaiian Electric Company, Inc., and is authorized so to do; that he has read the foregoing Application, and knows the contents thereof; and that the same are true of his own knowledge except as to matters stated on information or belief, and that as to those matters he believes them to be true.

Subscribed and sworn to before me this 31st day of March, 2017.

DEBORAH ICHISHITA

Notary Public, State of Hawai'i

My Commission expires July 18, 2020

Debous Schite

In TE

STATE OF HAWAI'I NOTARY CERTIFICATION

Doc. Date: 3/31/2017 # of pages 20

Notary Name DEBORAH ICHISHITA First Circuit

Doc. Description: Hawaiian Electric

Transmittal No. 17-02 (Decoupling)

Notary Signature

Date

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Transmittal No. 17-02 was served on the date of filing by hand delivery, as indicated below.

Dean Nishina
Executive Director
Division of Consumer Advocacy
Department of Commerce and Consumer Affairs
335 Merchant Street, Room 326
Honolulu, Hawai'i 96813

2 copies via Hand Delivery

Dated: Honolulu, Hawai'i, March 31, 2017.

HAWAIIAN ELECTRIC COMPANY, INC.

Michael Chu